

The Knapheide Mfg. Co. ▪ 436 South Sixth Street ▪ Box C 140 ▪ Quincy, Illinois 62306-2140
TEL: (217) 222-7131 ▪ FAX: (217) 222-5939 OR (800) 654-8997

September 19, 1995

RECEIVED

SEP 21 1995

RCOM SECTION

MR. RUBEN MCCULLERS
ENVIRONMENTAL SCIENTIST
U.S. EPA, REGION VII
WSTM/RCRA/RCOM
726 MINNESOTA AVENUE
KANSAS CITY KS 66101

Dear Ruben:

Re: Supporting information for the four supplemental
environmental projects for The Knapheide Mfg. Co.

We have reviewed your July 12, 1995, letter requesting additional information and documents to support the SEP's submitted May 5, 1995. Enclosed are answers to your questions and the invoices, expense reports, paint data and other information you requested.

If you have any questions or wish to discuss this information, please give me a call.

Sincerely,

THE KNAPHEIDE MFG. CO.

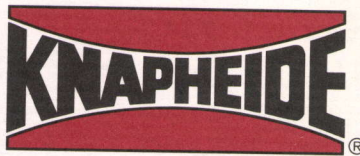
A handwritten signature in blue ink that reads "Gerry Korb". The signature is written in a cursive, flowing style.

Gerry Korb
Vice President Operations

GWK:dd

Enclosure

cc: Bryce Butler, Knapheide (no attachments)
Bob Schreiber, Schreiber, Grana & Yonley (no attachments)
Sandy Oberkfell, Esq., Rudnick & Wolfe (no attachments)



SINCE 1848

SEP #1 EXAMINE ENVIRONMENTAL IMPACT OF FLOOD & DISPOSE OF ABOVE GROUND TANKS & WOOD TREATMENT FACILITY

a) CLEANUP OF THE BUILDINGS AND GROUNDS AND DAMAGE ASSESSMENT

The costs associated with the cleanup of West Quincy and repair of the buildings were reviewed and revised to include the cleanup costs only. The repair work can be considered a GMP.

The cleanup following the flood was necessary to assess the environmental effects of the flood. Mud and debris covered everything. All above ground tanks were dislodged from their stands and barrels and cans had migrated onto the site. Existing ground water monitoring wells were covered by 1-1½ feet of mud.

Schreiber, Grana & Yonley, Inc. had performed an investigation to assess if the 1993 flood had affected groundwater quality. The activities conducted for this purpose included locating and redeveloping the groundwater monitoring wells; collecting groundwater samples and analyzing them and assessing any damages to the groundwater monitoring wells, and assessing if there are any releases from the above ground tanks. A written report on this assessment was prepared by Schreiber, Grana & Yonley and submitted to MDNR in January 1995. This investigation was voluntarily conducted by Knapheide after discussions with MDNR that the cost of this post-flood investigation may be considered as a SEP by EPA. The fact that this post-flood investigation conducted by Knapheide was voluntary and not required by MDNR is further supported by MDNR's contract with BDAT Environmental Company to perform post-flood assessment at several sites in Missouri including Knapheide facility in West Quincy, Missouri. The post-flood assessment by Schreiber, Grana & Yonley had concluded that the groundwater quality had changed at the site.

The cost of this portion of the S.E.P. revised to include cleanup but no repair of West Quincy is:

Cleanup mud & debris (Attachment A)	\$79,667.11
Assessment by SGY 2/28/95 (Attachment B)	1,230.00
Retesting of the wells (Attachment C)	<u>6,258.00</u>
Total	\$87,155.11

Costs for Knapheide employees time are not included.



SINCE 1848

SEP #1 (cont.)

b) DISPOSAL OF THE TANKS, TANK CONTENTS, AND CLEAN AND CLOSE PIPING

1. Disposal of the heating oil, tanks and piping.

The heating oil was picked up by Coleman Chemical, Inc. 3/15/94 and taken to Kiesal Marine for disposal. The fuel lines to the furnaces were drained and disconnected by Koenker Plumbing & Heating. Shortridge Construction lifted a fuel tank off a guy wire so it could be dismantled.

We currently have quotations for final cleaning, sectioning and disposal of the tanks.

2. Disposal of the solvents, solvent tanks and paint process.

The thinner waste was picked up by Coleman Chemical 3/15/94 and taken to Clayton Chemical for disposal.

The cost of this portion of the SEP is:

SEP 1 b COST SUMMARY

3/15/94	Disposal of Heating Oil - Coleman (Attachment D)	\$5,257.50
	Drain fuel lines to furnaces & disconnect - Koenker (Attachment E)	1,540.21
3/16/94	Move tank from guy wire-Shortridge (Attachment F)	465.00
3/15/94	Disposal of solvent - Coleman (Attachment G)	1,625.00
	Above ground tank closure estimate (Attachment H)	<u>16,760.00</u>
	Total	\$25,647.71

Knapheide internal costs are not included.

c. DISMANTLING AND DISPOSING OF THE DAMAGED WOOD TREATMENT BUILDING

The wood treatment building was damaged beyond repair when flood waters floated the partially filled storage tank, containing wood treatment chemical, off the frame and through the roof. In order to dispose of the contents of this tank and the tank itself, Knapheide will have to demolish the building first because currently it poses a safety threat to anyone working near this tank. To leave the contents of this tank would create a threat to the environment because of potential spill. Demolition and disposal of the wood treatment building is the only feasible option for Knapheide in order to dispose of the storage tank and its contents. The storage tank contains a wood treatment solution which contains pentachlorophenol.

Cost estimate per proposal (Attachment I) - \$35,665



SINCE 1848

SEP #2

FIGHTING THE GREAT FLOOD OF 1993

It is very difficult to separate the flood fighting activities into good management practices and pollution prevention. However, without Knapheide's quick response and intense efforts, water would have entered the levee district the first day of the 16 day effort. Had the levee been topped July 1, none of the (5) active gasoline stations would have been able to remove their fuel and oils. Farmers would not have had time to remove their tanks of oil, grease, fuel, pesticides and herbicides. The Knapheide Company would have been forced to leave their fuel oil, paint, solvent, oil, grease, and wood treatment as they were to float down the Mississippi River.

The first materials removed from the Knapheide property were the chemicals and paints, followed by lumber, products and equipment. In the end, the property in the levee district was damaged or destroyed, but the vast majority of the hazardous materials were safely stored away from the flood waters.

Attachment J is a copy of a memorandum describing the use of SEP's. Please see Section E, paragraph 2, on page 9, which states; "The only exception to the prohibition against acceptance of a supplemental project which represents a "sound business practice" is for a pollution prevention project."

Knapheide's cost of the project after FEMA reimbursement was \$255,495 as stated in my May 5, 1995, correspondence. A breakdown of the flood fighting costs is included as Attachment K. A more detailed breakdown is available if needed.



SINCE 1848

SEP #3 PAINT USAGE & VOC REDUCTION IN TEMPORARY PLANT

- a) Enclosed are copies of the revised Air Operating Permit for the temporary plant (Attachment L) and the IEPA Emission Standards for miscellaneous metal parts manufacturing plants (Attachment M) referencing the Illinois VOC regulatory limit of 3.5 lbs/gal. The Permit allowed us to use paints with up to 6.6 lbs/gal of VOM content as applied.

The estimates for total VOM emissions stated on the original Air Permit were based on lower production volumes and higher efficiency transfer rates than what were achievable at the temporary location. The revised permit reflects the actual experience.

Subsequent to start-up of the temporary facility, Knapheide implemented high solids prime and high solids top coat paints where applicable to reduce VOM emissions. The Construction Permit (Attachment N) and Revision to Operating Permit (Attachment O) document the changes and the revised allowable emission levels.

- b) MSDS sheets for the original (Attachment P) and current (Attachment Q) paints and solvents used at the temporary facility are included. Attachment R is a table comparing the previous and current paints and a second table showing how the paints and solvents are combined to arrive at the respective VOC per sprayable gallon calculations.
- c) The air permit for the new facility is not complete. However, the requirements are to be at or below 3.5 lbs/gal. (See IEPA Title 35: Environmental Protection Rules & Regulations (Attachment M)). The processes at the new facility will be substantially different from those at the temporary facility. The VOC levels at the new location are expected to be substantially below the 3.5 lbs/gal requirement for prime paint. The top coat paints may remain close to the 3.5 lbs/gal level.

Knapheide made the improvements at the temporary plant to reduce VOC levels substantially below the permit levels. Most of these processes will be different in the new facility as all prime painting will be done using electrocoat equipment.



SINCE 1848

SEP #3 PAINT USAGE & VOC REDUCTION IN TEMPORARY PLANT (cont.)

- d) The ovens are required to cure the high solids paint in a reasonable length of time. Without the ovens, we would be forced to stay with low solids/high VOC paints which flash off and cure very rapidly. The high VOC paints are under 6.6 lbs/gal VOC content and meet the IEPA temporary operating permit guidelines.

Included as Attachment S are copies of the invoices for the ovens and other installation costs.



SINCE 1848

SEP #4 PAINT TECHNOLOGY INVESTIGATION/CONSULTING

- a) OK
- b) The line item cost should read: 18 attendees at \$40,000 annual salary and fringe benefits ÷ 250 days per year times 2 days = \$5,760.
- c) The travel costs billed at \$738/hour regardless of the number of employees travelling reflects the fully burdened cost of the company aircraft per hour. The cost per hour does not change with the number of people aboard. At times, commercial rates may be less, but the number of hours employees must commit to the trip is much greater, offsetting the savings.
- d) Included as Attachment T are copies of invoices and expense sheets for the previously listed costs and an update of the summary of expenses.

The cost of the Knapheide employee time is only included in the training seminar. Elsewhere, we have only included the costs of travel, meals, motels, etc. Attachment U is an update of the investigation costs. Please use it as a replacement for the original summary.

TENK BROS CONSTRUCTION INC.

520 Spring St.
QUINCY, ILLINOIS 62301

(217) 222-3361 or 224-9492

STATEMENT

DATE	12-3-93
NUMBER	1

08/93

L

7,764.97

11792

Knapheide Mfg. Co.

6th. and State St.

Quincy, Il. 62301

TERMS:

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

\$ _____

EA

000000

DATE	CHARGES AND CREDITS	BALANCE
	P.O.# 113595 BALANCE FORWARD	
	For work at West Quincy, 11-1-93	
	thru 11-26-93. See material and	
	labor record attached.	\$29,764.97
	(2-1)	
	9313	
	850980500	
	gsc	
	12-93	
	ENTERED DEC 14 1993	

TENK BROS. CONSTRUCTION INC.

Thank You

PAY LAST AMOUNT
IN THIS COLUMN

PRODUCT 96-2 / NEBS Inc. Groton, Mass. 01471 To Order PHONE TOLL FREE 1-800-225-6380

LABOR RECORD

DATE _____

12-1-93

~~Peide Mfg Co~~

EDUCATION

West Qey PO 113595

[illegible]

(217) 222-3361 or 224-9492

DATE 11-1-93
NUMBER

Quincy, Il. 62301

11792

9313

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

TENK BROS. CONSTRUCTION INC.

Thank You

PAY LAST AMOUNT
IN THIS COLUMN

LABOR RECORD

Side Mfg. Co
ST Quincy PO# 113595

DATE

11-1-93

ECEIPT

11/19/93

DATE 11/19/93

CONSTRUCTION

ST. IL

1.160.7400

EXT. 31.160.74

UNIT OF MEASURE

.00

UNIT OF MEASURE EA

U. 850

ACCT. 98050000000

DESCRIPTION OF MATERIAL	PRICE	AMOUNT
Butler Panels	940.36	
Tractor	46.00	
Locks & chain	337.3	
scottie Potties	15.00	
service call & Tire (Rons)	314.25	
Blades	26.48	
chain for gates	12.42	
Generator	300.00	
Bobcat Loader	1800.00	
Backhoe, Dump Truck & Tractor	2000.00	
	5532.24	

LABOR RECORD	HOURS	RATE	AMOUNT
MECHANICS			
Mechanics			3562.50
HELPERS			
SIGNED		TOTAL	31160.74

NEW PANELS

- 940.36 = 1,000 (INSTALL THE PANELS)

29,220.38

CONSTRUCTION INC.
520 Spring St.
QUINCY, ILLINOIS 62301

DATE 3-1-94
NUMBER 170

L. 334.00

(217) 222-3361 or 224-9492

11792

Knapheide Mfg. Co.

P.O.Box C-140

Quincy, Il. 62306-2140

RE EA

ENTERED MAR 21 1994

50000000

TERMS:

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

\$

DATE	CHARGES AND CREDITS	BALANCE
	P.O.#113595 <i>line 5</i> BALANCE FORWARD	
	Work at West Quincy	\$1,334.00
	<i>9313</i>	
	<i>851956460</i>	
	<i>9313</i>	
	<i>394</i>	

TENK BROS. CONSTRUCTION INC.

Thank You **PAY LAST AMOUNT
IN THIS COLUMN**

PRODUCT 96-2  Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

NEBS/Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

3494

West Quincy Rd # 113595

[illegible]

LABOR RECORD		HOURS	RATE	AMOUNT
MECHANICS	Labor			1269.00
HELPERS				
SIGNED		TOTAL		1334.00

PRODUCT 230 (NATURAL) Inc. Garden Mays 01471 to Order PHONE TOLL FREE 1 + 800 775 6380

(217) 222-3361 or 224-9492

Knapheide Mfg. Co.

6th. and State ST.

Quincy, Il. 62301

TERMS:

ENTERED FEB 21 1994
TURN WITH YOUR REMITTANCE


PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

DATE	CHARGES AND CREDITS	BALANCE
July 4	P.O.# 113595 Work at West Quincy.	\$2,344.50
	(4) = 1	
	9313	
	851 950 460	
	94	
	294	

TENK BROS. CONSTRUCTION INC.

Thank You

PAY LAST AMOUNT
IN THIS COLUMN

PRODUCT 96-2  Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

TENK BROS CONSTRUCTION INC.

520 Spring St.
QUINCY, ILLINOIS 62301

(217) 222-3361 or 224-9492

STATEMENT

DATE	1-1-94
NUMBER	

Knapheide Mfg. Co,
6th and State St.
Quincy, Il. 62301

TERMS:

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

DATE	CHARGES AND CREDITS	BALANCE
	P.P.# 113595 <u>1123</u> BALANCE FORWARD	
	For work at West Quincy, 11-26- thru 12-31-93	
	See material and labor record attached.	\$39,518.51
	To move machines from 6th. st. to West Quincy.	517.00
	<u>(3) = 1</u>	
	Total	\$40,035.51
<i>Good</i>	851.950.460	
<i>1/94</i>	851.950.460 - 16454.91	
	160 149000 - 16881.00	
	100149000 - 12699.60	
	ENTERED JAN 24 1994	
	changed 1-27-94	
	th	

- 23,757.75
= 15,760.76

TENK BROS. CONSTRUCTION INC.

Thank You

PAY LAST AMOUNT
IN THIS COLUMN

PRODUCT 96-2 / NEBS Inc., Groton, Mass 01471. To Order PHONE TOLL FREE 1-800-225-6380

LABOR RECORD

PRODUCT 230 (N.E.T.I.S.) Inc., Groton, Mass 01471 To Order PHONE TOLL FREE 1 + 800 225 6380

RECORD

DATE
1-1-94

Mfg Co
West Quincy PD# 113595

QTY.	DESCRIPTION OF MATERIAL	PRICE	AMOUNT
	11-26-93-Thru 12-31-93		
	scotties Potties		16500
	Tire repairs		290 78
	Lube spray WD		
	oiler spout		498
	wire wheels		1400
	Backhoe & Truck		900 00
	Koenker Plumb		
	(tapped off line)		17715
	Heimer Constr (pump house)	10	88100
	Consolidated Contr. (Fence)	12	69960
			2504251

23,757.75

LABOR RECORD		HOURS	RATE	AMOUNT
MECHANICS	Labor		14	476 00
HELPERS				
SIGNED			TOTAL	

39,518.51

- 23,757.75 = 15,760.76

QUINCY, ILL.,

January 18

19 94

Reide Manufacturing Company

P.O. Box C 140

Quincy, Illinois 62306

11223



IN ACCOUNT WITH



CHRISTNER COMPANIES, INC.

1-1844

300 Broadway
Quincy, Illinois 62301

Phone 223-1455

12-2-93	4 1/2 Hrs. Motor Grader @ \$55.00/Hr.	\$ 247.50
12-3-93	7 Hrs. Motor Grader @ \$55.00/Hr.	385.00

TOTAL

\$ 632.50

Work @ West Quincy Location

P.O. #113600

173-1

9313
850 980 500

gs
1-94

ENTERED FEB - 2 1994

QUINCY, ILL., February, 19 94

Knapheide Manufacturing Company

P.O. Box C 140

Quincy, Illinois 62306



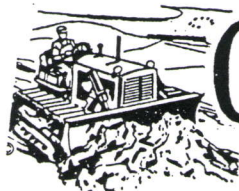
IN ACCOUNT WITH

11223

CHRISTNER COMPANIES, INC.

300 Broadway
Quincy, Illinois 62301

Phone 223-1455



2-6-94	4	Hrs. Motor Grader @ \$55.00/Hr.	\$ 220.00
2-11-94	2	Hrs. Motor Grader @ \$55.00/Hr.	110.00
2-14-94	8	Hrs. Dump Truck @ \$35.00/Hr.	280.00
TOTAL			\$ 610.00

P.O. #113606

62-1

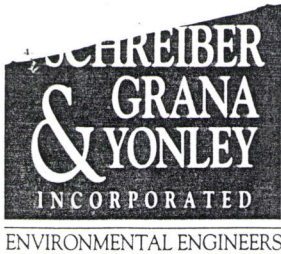
Blading & Clean Up Mud at West Quincy Plant

ENTERED MAY 10 1994

9313

10014900

PC
597

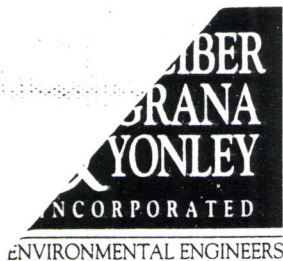


INVOICE NUMBER: 12164
 CLIENT NUMBER: KNAP06
 CLIENT NAME: KNAPHEIDE MFG. CO.

271 Wolfner Drive ■ Saint Louis, Missouri 63026
 314/349-8399 ■ Fax 314/349-8384

2/10/94	Confernece call & discuss with RJS PALSETIA-SENIOR ENGINEER	1.00	85.00
2/11/94	Disc. with Harold, review of regs and analysis, hydrogeology report regarding mud and water PALSETIA-SENIOR ENGINEER	2.50	212.50
2/23/94	Knapheide meeting ABELN-ENG. MANAGER	6.00	510.00
2/23/94	Knapheide meeting SCHREIBER-PRINCIPAL ENG.	6.00	720.00
2/25/94	Review Illinois HW reports for two sites and comments to Harold PALSETIA-SENIOR ENGINEER	2.50	212.50
2/21/94	Coordinate meeting arrangements CLERICAL STAFF	0.25	7.50
2/22/94	Coordinate meeting arrangements CLERICAL STAFF	0.25	7.50
	SERVICE TOTAL	1,755.00	
2/15/94	SWBT Conference call charges CLERICAL STAFF		42.98
	EXPENSE TOTAL	42.98	

INVOICE NUMBER: 12652
 CLIENT NUMBER: KNP08
 CLIENT NAME: KNAPHEIDE MFG. CO.



271 Wolfner Drive • Saint Louis, Missouri 63026
 314/349-8399 • Fax 314/349-8384

5/24/94	Sampling/redevelopment project coordination	1.00	80.00
	RINEY - STAFF ENGINEER		
5/24/94	Monitoring well redevelopment	0.50	35.00
	SHEPARD-ASSOC. ENGINEER		
5/25/94	Monitoring well redevelopment	15.00	1,050.00
	SHEPARD-ASSOC. ENGINEER		
5/26/94	Monitoring well redevelopment	1.50	105.00
	SHEPARD-ASSOC. ENGINEER		
5/27/94	Sampling/redevelopment project coordination	0.50	40.00
	RINEY - STAFF ENGINEER		
5/27/94	Monitoring well redevelopment	0.50	35.00
	SHEPARD-ASSOC. ENGINEER		
5/31/94	Check on well covers	0.50	35.00
	SHEPARD-ASSOC. ENGINEER		
5/19/94	Cost estimate revisions	1.50	45.00
	CLERICAL STAFF		

SERVICE TOTAL

1,425.00

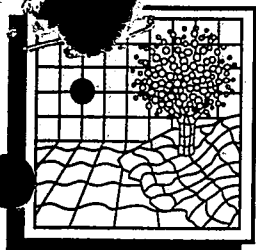
5/25/94	Roberts Enviromental Drilling invoice #2244		1,667.50
	RINEY - STAFF ENGINEER		
5/25/94	Water Level Indicator Rental - 1 day		15.00
	SHEPARD-ASSOC. ENGINEER		
5/26/94	CPI Photo Finish invoice #30409		31.00
	CLERICAL STAFF		
5/31/94	JS Express invoice #87964		6.90
	CLERICAL STAFF		
5/25/94	Rubber Gloves, Safety Fencing and Latex Glove		82.25
	SHEPARD-ASSOC. ENGINEER		
5/26/94	Meal charge		5.72
	SHEPARD-ASSOC. ENGINEER		
5/25/94	Truck Rental - 1 day		100.00
	SHEPARD-ASSOC. ENGINEER		

EXPENSE TOTAL

1,908.37

2925
 1425
 1908.37
 6,258.37





AMERICAN TECHNICAL & ANALYTICAL SERVICES, INC.

875 Fee Fee Road ♦ Maryland Heights, MO 63043-3211

Office (314) 434-4570 ♦ FAX (314) 434-0080 ♦ EIN: 43-1536947

INVOICE

Harold D. Huggins
Facilities & Environmental Engineer Mg
The Knapheide Mfg. Co.
436 South Sixth
Quincy, IL 62036-2140

DATE: 06/29/94

INVOICE NUMBER: S8735

REF: Knap 08

ATAS#	REPORT	DATE	SAMPLE ID	P O NUMBER	TEST	DESCRIPTION	COST	TOTAL
9976.01	9976.01	06/23/94	HW-3		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.02	9976.02	06/23/94	HW-4		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.03	9976.03	06/23/94	HW-2		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.04	9976.04	06/23/94	HW-5		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.05	9976.05	06/23/94	HW-9		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.06	9976.06	06/23/94	HW-8		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.07	9976.07	06/23/94	HW-6		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.08	9976.08	06/23/94	HW-7		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.09	9976.09	06/23/94	HW-1A		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
9976.10	9976.10	06/23/94	HW-3A		IN210 PET. HYDROCARB. MS300 VOA - PRIPOL		40.00 185.00	225.00
TOTAL SAMPLES						SUB TOTAL		
						MISC. CHARGE		2925.00
						AMOUNT DUE		

Page: 1

851.960710

Terms: Net Due Upon Receipt.

Please Remit To: 1700 W. ALBANY • BROKEN ARROW, OK 74012-1421

Include reference to the above Invoice Number in remittance.

Past due balances are subject to a service charge of 1.5% per month on the unpaid balance.

OK H/H
7-11-94

P.O. #3639



AMERICAN TECHNICAL & ANALYTICAL SERVICES, INC.

INVOICE

875 Fee Fee Road ♦ Maryland Heights, MO 63043-3211
Office (314) 434-4570 ♦ FAX (314) 434-0080 ♦ EIN: 43-1536947

Harold D. Huggins
Facilities & Environmental Engineer
The Knapheide Mfg. Co.
436 South Sixth
Quincy, IL 62036-2140

DATE: 06/29/94

INVOICE NUMBER: S8735

REF: KNAP 08

B
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L
L
T
O

ATAS#	REPORT	DATE	SAMPLE ID	P O NUMBER	TEST	DESCRIPTION	COST	TOTAL
9976.11	9976.11	06/23/94	MW-3AB		IN210 MS300	PET. HYDROCARB. VOA - PRIPOL	40.00 185.00	225.00
9976.12	9976.12	06/23/94	MW-4A		IN210 MS300	PET. HYDROCARB. VOA - PRIPOL	40.00 185.00	225.00
9976.13	9976.13	06/23/94	FIELD BLANK		IN210 MS300	PET. HYDROCARB. VOA - PRIPOL	40.00 185.00	225.00
TOTAL SAMPLES		13				SUB TOTAL		2925.00
						MISC. CHARGE		
						AMOUNT DUE		2925.00

Terms: Net Due Upon Receipt.

Please Remit To: 1700 W. ALBANY • BROKEN ARROW, OK 74012-1421

Include reference to the above Invoice Number in remittance.

Past due balances are subject to a service charge of 1.5% per month on the unpaid balance.

COLEMAN

CHEMICAL
INC.

INVOICE

98128

CUSTOMER NO.

KNACO

75 Sanger Street P.O. Box 5098 Peoria, Illinois 61601

(309) 674-6144

BILL TO:

The Knapheide Mfg. Company
P.O. Box C 140
Quincy, IL 62306-2140

SHIP TO:

Knapheide Mfg. Company
Highway 24 West
West Quincy, MO 63471

15718

415.99

DATE		SHIP VIA		F.O.B.		TERMS			
03/16/94		Our Truck		Peoria		Net 30 Days			
PURCHASE ORDER NUMBER		ORDER DATE		SALESPERSON		OUR ORDER NUMBER			
Verbal 940037		03/15/94		04		17539			
QUANTITY		ITEM NO.		DESCRIPTION		UNIT PRICE		AMOUNT	
REQUIRED	SHIPPED	Unt/Ms							
4925.00	4925.00	0.00	gals. WASTE	Waste Pick-Up - OIL TANKS		0.900		4,432.50	
1.00	1.00	0.00	ea. WASTE	FREIGHT CHARGE		825.000		825.00	
<p>WASTE PICKED UP ON 3/15/94 TAKEN TO KIESEL MARINE/THE KIESEL COMPANY FOR DISPOSAL</p> <p>MANIFEST # 0048090395</p> <p>ENTERED MAR 24 1994</p>									
								NonTaxable Subtotal	5,257.50
								Taxable Subtotal	0.00
								Tax	0.00
								Total	5,257.50

INTEREST: Coleman Chemical Inc. shall charge, and Purchaser agrees to pay, interest on any amount due on this invoice, at the rate of NINETEEN PERCENT (19%) per annum, compounded monthly, or the highest interest permitted by law for commercial accounts, whichever is greater. Failure to exercise rights under this provision, upon one or more occasions, shall not waive the right to exercise the same subsequently.

IMPORTANT: All products are sold without warranty of any kind and purchasers will, by their own tests, determine suitability of such products for their own use. Seller warrants that all goods covered by this invoice were produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended. Seller shall retain title to returnable drums. Drums are to be paid for in full, as invoiced, and full refund will be made promptly, provided drums are returned to original point of shipment within one year from date of invoice. Return freight charges to be prepaid. The drums returned must be the same originally shipped, and show no evidence of abuse, or use for purposes other than the storage of original contents. No cash discount will be allowed on drums. Existing taxes, or any additional taxes, levied by any governmental authority, on products herein named shall be for account of buyer.

NO CLAIMS FOR LOSS, DAMAGE OR LEAKAGE ALLOWED AFTER DELIVERY IS MADE IN GOOD CONDITION TO WAREHOUSE OR RAILROAD DEPOT.

CUSTOMER COPY - WHITE REMITTANCE COPY - YELLOW OFFICE COPY - PINK PEORIA COPY - BLUE

INSTRUCTIONS FOR THE COM-
PLETION OF THIS FORM ARE ON A
SEPARATE SHEET.

THIS DOCUMENT MUST BE USED
FOR ALL MISSOURI-DESTINED
SHIPMENTS.

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Division of Environmental Quality

Hazardous Waste Program

P.O. Box 176 Jefferson City, Missouri 65102

314-751-3176

HAZARDOUS WASTE MANIFEST

EMERGENCY RESPONSE
U.S. COAST GUARD
1-800-424-8802
CHEM TREC
1-800-424-9300
DEPT. OF NATURAL RESOURCES
314-634-2436

print or type (Form designed for use on elite (12-pitch) typewriter.)

0044

Form Approved OMB No 2050-0039, Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

M 0 D 0 0 0 7 6 6 9 9 8 1

Manifest
Document No.
0 3 9 5

2. Page

of

Information in the shaded areas

is required by State law. 0044

3. Generator's Name and Mailing Address

Knapheide
Highway 24
West Quincy, Missouri 65735

A. Missouri Manifest Document Number

0 0 4 8 0 9 0 3 9 5

4. Generator's Phone (217) 222-7131

B. G.S.I. (Gen. Site Address)

5. Transporter 1 Company Name

The Kiesel Company

6. US EPA ID Number

M 0 T 3 0 0 0 1 1 1 6 0

C. MO. Trans. ID H-1202

D. Transporter's Phone (314) 351-5500

7. Transporter 2 Company Name

8. US EPA ID Number

E. MO. Trans. ID

F. Transporter's Phone

9. Designated Facility Name and Site Address

Kiesel Marine/The Kiesel Company
Foot of Branch Street
St. Louis, Missouri 63147

10. US EPA ID Number

M 0 T 3 0 0 0 1 1 1 6 0

G. State Facility's ID

RR-124

H. Facility's Phone

(314) 421-0328

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. Waste Oil, Combustible Liquid
NA 1270 ERG #27

12. Containers

Number

Type

13.
Total
Quantity

14.
Unit
WT/Vol

I. Waste No.

0 0 1 T T 0 4 9 2 5 G

EPA WASTE CODE

STATE
D 0 9 8

EPA WASTE CODE

STATE

EPA WASTE CODE

STATE

EPA WASTE CODE

STATE

J. Additional Descriptions for Materials Listed Above

a. Specific Gravity 9

b.

c.

d.

15. Special Handling Instructions and Additional Information

In case of emergency contact (314) X 421-0328.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.

Printed/Typed Name

Signature

Month Day Year

RONALD I RATHBUN

Ronald I Rathbun

10/31/5194

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

Jeff Crispi

Jeff Crispi

10/31/5194

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month Day Year

Denise Flynn

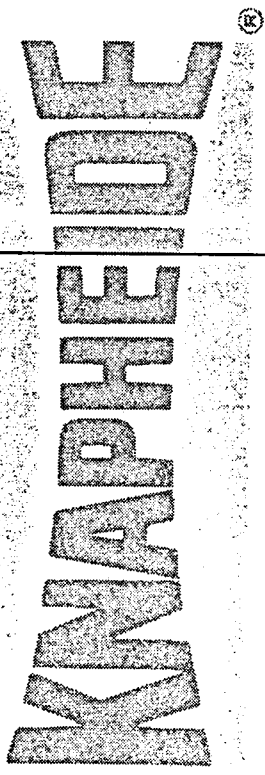
Denise Flynn

10/31/5194


MISSOURI DNR FINAL COPY - PART 1

THIS COPY MUST BE SENT BACK TO THE GENERATOR BY THE DESIGNATED
FACILITY THEN TRANSMITTED TO THE DEPARTMENT BY THE GENERATOR.

VENDOR COLMAN CHEMICAL/OIL INC		CHECK DATE 4/15/94	CHECK NO. 052478
INVOICE DATE	INVOICE NO. / DESCRIPTION	INVOICE AMOUNT	DISCOUNT
3/16/94 98128	WASTE PICK UP	5,257.50	.00
3/17/94 98150	WASTE PICK UP	1,625.00	.00
		5,257.50	
		1,625.00	
		6,882.50	
TOTALS		6,882.50	6,882.50



36 SOUTH SIXTH STREET, P.O. BOX C140, QUINCY, ILLINOIS 62306 ■ 217-222-7131

 <p>THE KNAPHEIDE MFG. CO. 436 SOUTH SIXTH STREET P.O. BOX C140 QUINCY, ILLINOIS 62306 (217) 222-7131</p>		CHECK NO. 052478 052478
SINCE 1848		DATE 4/15/94 AMOUNT **6,882.50

PAY SIX THOUSAND EIGHT HUNDRED EIGHTY-TWO DOLLARS AND 50 CENTS

VENDOR NO. 13718

VOID AFTER 90 DAYS

TO THE ORDER OF

COLEMAN CHEMICAL/OIL INC
 P.O. BOX 2838
 EAST PEORIA IL 61611

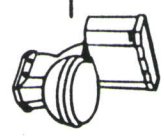
THE KNAPHEIDE MFG. CO.

NOT NEGOTIABLE

10981

Knapheide Manufacturing Company
436 South 6th Street
P.O. Box C140
Quincy, Illinois 62306-2140

— INVOICE —



KOENKER PLUMBING & HEATING

PHONE 222-2964 ILLINOIS LICENSE # 058-081332
403 HAMPSHIRE ST. QUINCY, ILLINOIS 62301

RADIO
DISPATCHED
TRUCKS

DATE	JOB NAME	JOB LOCATION	AMOUNT
8/29/94	Knapheide Mfg.	West Quincy	

8/11/94
8/19/94

P.O. # 113613

PARTIAL BILLING

Drain residual fuel oil from overhead storage tanks and overhead supply lines. Pressurize each line and tank with air and blow out oil into drums.

1-1/2 x c1. BI nipple
2-3/8" comp. coupling

tax (MO)
labor

9 = 1

PAID SEP 26 1994

.33
3.64
3.97
.23
1151.63
\$1155.83

9313

1001450000

VISA & MASTERCARD ACCEPTED

NO. 23103

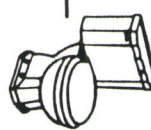
INV. NO.

PAY LAST FIGURE IN AMOUNT COLUMN

TERMS: NET 30 DAYS, 1 1/2% PER MONTH,
18% A YEAR DELINQUENT CHARGE.

10987

Knapheide Manufacturing Co.
436 South 6th Street
P.O. Box C140
Quincy, Illinois 62306-2140



KOENKER PLUMBING & HEATING

PHONE 222-2964 ILLINOIS LICENSE # 058-081332
403 HAMPSHIRE ST. QUINCY, ILLINOIS 62301

RADIO
DISPATCHED
TRUCKS

— INVOICE —

DATE	JOB NAME	JOB LOCATION	AMOUNT
9/16/94	Knapheide Mfg. co.	West Quincy	
DATE	JOB DESCRIPTION	AMOUNT	
8/30/94	P.O. # 113613 PARTIAL BILLING Finished draining residual oil out of oil lines and holding tanks. Installed gas regulator on new heating and air condition furnace in Platform building.		
	1-1/2" gas regulator	31.71	
	1-CP shower arm	6.86	
	1-1/2 x 4 1/2" BI nipple	.57	
	1-1/2 x 5" BI nipple	.59	
		39.73	
	tax (MO)	43.13	
	labor	100149.00	
		2.27	
		342.38	
		384.38	

ENTERED SEP 26 1994

VISA & MASTERCARD ACCEPTED

gac
gag

NO 23191

INV. NO.

PAY LAST FIGURE IN AMOUNT COLUMN

TERMS: NET 30 DAYS, 1 1/2% PER MONTH,
18% A YEAR DELINQUENT CHARGE.

SHORTRIDGE CONSTRUCTION, INC.

3908 N. 24th St.
QUINCY, ILLINOIS 62301
Phone 222-6647

11672

CUSTOMER'S ORDER NO. 113609		PHONE		DATE 3/18/94	
NAME Knapheide					
ADDRESS ATTN: Harold Huggins					
SOLD BY SR	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.
QTY.	DESCRIPTION			PRICE	AMOUNT
3	3/16/94				
1	25T			90.	270 00
	overtime for operator			15.	15 00
	lift tank from under high wires				
	6 hr labor			30	180 00
	(2-1)				
	9313			OK HAN 4-6-94	
	1001490W			851 9313	
	4.99				
RECEIVED BY				TAX	
				TOTAL	465 00

ENTERED APR 18 1994

4004

All claims and returned goods
MUST be accompanied by this bill.

PRODUCT 610

Thank You

COLEMAN

CHEMICAL
INC.

INVOICE

98150

75 Sanger Street P.O. Box 5098 Peoria, Illinois 61601

(309) 674-6144

CUSTOMER NO.

KNACO

4-15 94

13718

BILL TO:

The Knapheide Mfg. Company
P.O. Box C 140
Quincy, IL 62306-2140

SHIP TO:

Knapheide Mfg. Company
Highway 24 West
West Quincy, MO 63471

DATE		SHIP VIA		F.O.B.		TERMS						
03/17/94		Our Truck		Peoria		Net 30 Days						
PURCHASE ORDER NUMBER		ORDER DATE		SALESPERSON		OUR ORDER NUMBER						
Verbal 940037		03/17/94		04		17559						
QUANTITY				ITEM NO.		DESCRIPTION		UNIT PRICE		AMOUNT		
REQUIRED	SHIPPED		Unt/Ms									
1600.00	1600.00	0.00	gals.	WASTE		Waste Pick-Up - THINNED TANKS		0.900		1,440.00		
1.00	1.00	0.00	ea.	WASTE		FREIGHT CHARGE		185.000		185.00		
<p>WASTE PICKED UP ON 3/15/94 TAKEN TO CLAYTON CHEMICAL FOR DISPOSAL MANIFEST #6180184</p> <p>①-1 630 940 200</p> <p>ENTERED MAR 24 1994</p>												
										Non-taxable Subtotal		1,625.00
										Taxable Subtotal		0.00
										Tax		0.00
										Total		1,625.00

INTEREST: Coleman Chemical Inc. shall charge, and Purchaser agrees to pay, interest on any and all amounts not paid within thirty (30) days of invoice. Interest shall be charged at NINETEEN PERCENT (19%) per annum, compounded monthly, or the highest interest permitted by law for commercial accounts, whichever is higher, from the date of invoice. Failure to exercise rights under this provision, upon one or more occasions, shall not waive the right to the same subsequently.

All products are sold without warranty of any kind and purchasers will, by their own tests, determine suitability of such products for their own use. Seller warrants that all goods covered by this invoice were produced in accordance with the requirements of the Fair Labor Standards Act of 1938, as amended. Seller shall retain title to returnable drums. Drums are to be paid for in full, as invoiced, and full refund will be made promptly, provided drums are returned to point of shipment within one year from date of invoice. Return freight charges to be prepaid. The drums returned must be the same originally shipped, and show no evidence of abuse, or use for purposes other than original contents. No cash discount will be allowed on drums. Existing taxes, or any additional taxes, levied by any governmental authority, on products herein named shall be for account of buyer. DAMAGE OR LEAKAGE ALLOWED AFTER DELIVERY IS MADE IN GOOD CONDITION TO WAREHOUSE OR RAILROAD DEPOT.

CUSTOMER COPY - WHITE REMITTANCE COPY - YELLOW OFFICE COPY - PINK PEORIA COPY - BLUE

PLEASE TYPE

(Form designed for use on elite (12-pitch) typewriter.)

**UNIFORM HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

MOD000766998

Manifest
Document No.

0394

2. Page 1

1 of 1

Information in the shaded areas is not
required by Federal law, but is required by
Illinois law.

3. Generator's Name and Mailing Address

Location If Different

Knapheide

Gen. Ph.# (217) 222-7131

Highway 24

West Quincy, Missouri 65735

4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* (314) 421-0328

5. Transporter 1 Company Name

6.

US EPA ID Number

The Kiesel Company

MOT300011160

7. Transporter 2 Company Name

8.

US EPA ID Number

9. Designated Facility Name and Site Address

10.

US EPA ID Number

Clayton Chemical Company

#1 Mobile Avenue

Sauget, Illinois 62201

ILD066918327

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

No.

Type

13.
Total
Quantity14.
Unit
Wt/Vol15.
Waste No.

a. "RQ" Waste Flammable Liquid, N.O.S., (Xylene, Mineral Spirits)

3, UN 1993, PG II

ERG #27

0 0 1

T T

1 600

G

EPA HW Number

X X D 0 0 1

Authorization Number

0 0 0 1 2 5

EPA HW Number

X X

Authorization Number

X X

Authorization Number

X X

Authorization Number

X X

Authorization Number

J. Additional Description for Materials Listed Above

Specific Gravity = .75

K. Handling Codes for Wastes Listed Above
in Item #14G = Gallons Y = Cubic Yards
Interim Final

S02

T50

15. Special Handling Instructions and Additional Information

CC# 8491

MO Gen. ID# 004809

MO Trans. ID# H-1202

Truck License # IL-P55686

MO Facility ID# RRIL01

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by
proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway
according to applicable international and national government regulations.If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to
be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present
and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and
select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

Date

Month Day Year

03 15 94

Date

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

03 15 94

Date

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

03 15 94

Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Date

Printed/Typed Name

Signature

Month Day Year

03 15 94

Date

This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Failure to provide
this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation. Falsification of this information may result in a fine up to \$50,000
per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.



271 Wolfner Drive • Saint Louis, Missouri 63026
314/349-8399 • Fax 314/349-8384

cc: Boyce
7-21-95

July 25, 1995

Mr. Gerry Korb
Vice President - Manufacturing
The Knapheide Mfg. Co.
P.O. Box C-140
436 South 6th Street
Quincy, IL 62306-2140

Re: Proposal No. 953550
Above Ground Storage Tank Closure Cost Estimate
West Quincy, Missouri

Dear Mr. Korb:

This letter presents a cost estimate for performing closure of six (6) above ground storage tanks (ASTs) located at The Knapheide Mfg. Co. (Knapheide) facility in West Quincy, Missouri. This scope of work and cost estimate is based on the April 4, 1995 request of Knapheide as well as subsequent conversations with Mr. Harold D. Huggins, formerly employed by Knapheide, on April 20 and 21, 1995, and July 11, 1995 written comments received from Ms. Sandra L. Oberkfell of Rudnick & Wolfe. It is designed to be both cost effective and responsive to applicable and/or related environmental regulations. Specifically, bids were obtained from local and regional contractors to close six (6) ASTs. According to information supplied by Knapheide, the ASTs consist of the following:

- One (1) 1,000-gallon AST, formerly containing xylene
- One (1) 1,000-gallon AST, formerly containing SC-100 (xylene blend)
- One (1) 4,000-gallon AST, formerly containing #2 fuel oil
- One (1) 9,700-gallon AST, formerly containing #2 fuel oil
- One (1) 9,700-gallon AST, formerly containing #2 fuel oil
- One (1) 12,000-gallon AST, formerly containing #2 fuel oil

Additionally, it is our understanding that the ASTs have each been emptied of all liquid contents.

Conversations with the Missouri Department of Natural Resources (MDNR) indicate that AST closure regulations do not currently exist; however, the MDNR recommends following the current underground storage tank (UST) closure regulations.

Based on our research, Schreiber, Grana & Yonley, Inc. presents the following recommendations for the closure of the above-mentioned ASTs:



- 1) The six (6) ASTs as listed above will be cleaned according to current industry standards. As previously noted, it is assumed that all liquids have been removed from the ASTs; however, sludge and scale (solid materials) may remain. The ASTs will be checked for the presence of explosive vapors and, if present, purged of such with an abductor and compressed air. The ends of each AST will be cut open and cleaned of any residual sludge/scale via hand shoveling and oil dry absorbent material. Supplied air will be used to ensure adequate air for the workers while cleaning inside the ASTs. All sludge/scale will be containerized in properly labeled, DOT-approved, 55-gallon, steel drums. The drums will be stored on-site in a secure location pending disposal. By virtue of the cleaning, the ASTs will be rendered non-hazardous, cut up and recycled at a scrap facility in Quincy, Illinois.
- 2) The piping formerly associated with the six (6) ASTs (where visible at the surface) will be cleaned of any residual sludge/scale through the application of a negative air pressure per piping run. This activity will remove any mobile materials from the lines. Each of the lines will then be capped at the ends. All generated material will be containerized with the AST residuals in 55-gallon drums. The drums will be stored on-site in a secure location pending their disposal.
- 3A) All containerized sludge, scale, etc. generated during the cleaning process of the #2 fuel oil ASTs and the SC-100 AST will be properly disposed. It is assumed that this material will be classified as a special waste. With this, it is anticipated that the material will be disposed of at the BFI sanitary landfill located to the north of West Quincy, Missouri. In order to obtain waste acceptance, a representative sample of the material will be collected and analyzed for ignitability, reactivity, benzene, pH, as well as a paint filter test. It is assumed that one (1) drum of material will be generated per AST, or five (5) drums total.
- 3B) The material generated from the xylene AST, assumed to total one (1) drum, cannot be classified as a special waste, and thus, cannot be accepted at a sanitary landfill. It must be classified/disposed of as a hazardous waste. A sample of the waste will be submitted to Rollins Environmental Inc./Aptus Inc. (Rollins/Aptus) for analysis in order to obtain the appropriate waste characterization/acceptance. Rollins/Aptus will be providing waste characterization/disposal services in association with the closure of the pentachlorophenol AST/dip tank at the site, disposing of the liquids and sludge at its Coffeyville, Kansas facility. The xylene sample analysis will include RCRA metals, reactivity, corrosivity, ignitability, water percentage, BTU, ash and total halogen. Upon the completion of the waste acceptance process, the material will be disposed of at the Rollins/Aptus facility in Coffeyville, Kansas. It is assumed that no sludge will be generated.
- 4) Upon the completion of the above tasks, Schreiber, Grana & Yonley, Inc. will prepare a short correspondence detailing the closure procedures which were implemented. This correspondence will be submitted to Knapheide for review, comments and/or approval.



Mr. Korb
Page 3
July 25, 1995

Schreiber, Grana & Yonley, Inc. will provide environmental oversight of all on-site AST closure activities, such as documenting proper, industry standard procedures for AST cleaning, decommissioning, and disposal of all waste materials generated by cleaning and dismantling of the ASTs. All on-site personnel associated with this project will be trained according to OSHA 1910.120.

Site work associated with Tasks 1 and 2 will be conducted during one (1) site mobilization, while Task 3 will involve a second site visit.

R. Cooper Contracting Services, Inc. of St. Louis, Missouri, will be conducting the AST closure activities as well as the special waste hauling.

A cost estimate breakdown of the above work tasks is presented below in Table 1:

TABLE 1

ABOVE GROUND STORAGE TANKS CLOSURE COST ESTIMATE

Task	Labor	Expenses	Analytical	AST Disposal	Drum Disposal	Total
1) Clean, dismantle and dispose of ASTs; containerize sludge, solid materials, and AST cleaning materials	\$3,000	\$760	--	\$8,000	--	\$11,760
2) Clean and cap piping; containerize sludge, solid materials, and cleaning materials						
3A) Non-hazardous drum disposal	\$400	--	\$200	--	\$1,050	\$1,650
3B) Hazardous drum disposal*	--	--	\$550	--	\$750	\$1,300
4) Correspondence development, project management	\$2,050	--	--	--	--	\$2,050
TOTAL:	\$5,450	\$760	\$750	\$8,000	\$1,800	\$16,760

Note: The costs listed for Task 3B are contingent upon such occurring during the same site mobilization as that associated with the pentachlorophenol liquid/sludge disposal from the closure of the AST/Dip tank at the site. The costs further assume that no sludge will be generated during the xylene AST closure.

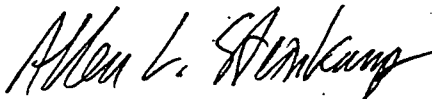
Schreiber, Grana & Yonley, Inc. proposes to provide services necessary to complete all activities on a time-and-expense basis. The budget outlined in Table 1 will not be exceeded without prior approval from Knapheide. All subcontractor invoices will be forwarded to Knapheide for direct payment.

Mr. Korb
Page 4
July 26, 1995


Upon your approval of this cost estimate, Schreiber, Grana & Yonley, Inc. will implement the AST closure process. Should you have questions or require further information, please contact the undersigned at (314) 349-8399. Schreiber, Grana & Yonley, Inc. appreciates the opportunity to provide our services to Knapheide.

Sincerely,

SCHREIBER, GRANA & YONLEY, INC.



Allen L. Steinkamp, C.P.G.
Staff Hydrogeologist

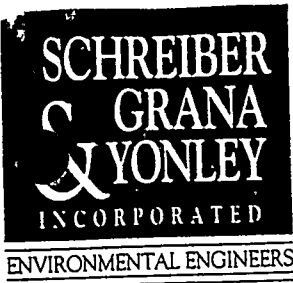


Douglas L. Abeln
Engineering Manager

ALS/DLA/cct

cc: Ms. Sandra L. Oberkfell - Rudnick & Wolfe

sgy\sgy22\knap3550.pro



cc: Bryce 7-31-95
271 Wolfner Drive • Saint Louis, Missouri 63026
314/349-8399 • Fax 314/349-8384

July 25, 1995

Ms. Sandra L. Oberkfell
Rudnick & Wolfe
203 North LaSalle Street
Chicago, IL 60601-1293

Re: Aboveground Xylene Storage Tank Waste Disposal
Rollins/Aptus Scope of Services

Dear Ms. Oberkfell:

This letter has been prepared according to your July 13, 1995 verbal request involving documentation of the services and unit costs associated with the transportation and disposal of sludge and scale (solid materials) expected to be generated during the closure of a 1,000-gallon above ground storage tank (AST) which formerly contained xylenes. The AST is located at The Knapheide Mfg. Co. (Knapheide) facility in West Quincy, Missouri.

A letter dated July 20, 1995 from Rollins Environmental, Inc./Aptus, Inc. (Rollins/Aptus) contained unit costs to conduct activities involving the disposal of liquid and sludge containing xylenes from the Knapheide facility. The applicable costs are as follows:

1) Transportation:

- Transportation of containerized xylene solid/sludge materials derived from the cleaning of the AST from West Quincy, Missouri to Coffeyville, Kansas: \$500.00 minimum stop charge

~ 390

2) Disposal:

- Incineration of xylene solid materials at the Aptus-Coffeyville, Kansas facility: \$150.00 per 55-gallon drum
- Incineration of xylene sludge materials at the Aptus-Coffeyville, Kansas facility: \$12.00 per gallon; if sludge is greater than 60% of the drum, a \$0.75 per pound (\$300.00 minimum) charge will also apply
- RCRA Waste Treatment fee: \$28.00 per ton

3) Other Charges:

- Waste analysis/profiling fee per waste stream: \$550.00

The scope of services to be provided by Rollins/Aptus regarding the xylene AST sludge disposal are directly related to the scope of work described in the June 2, 1995 proposal sent to Mr. Harold D. Huggins, formerly of Knapheide. These tasks are as follows:



Ms. Oberkfell
Page 2
July 25, 1995

Sludge and scale will be removed from the xylene AST by a Schreiber, Grana & Yonley, Inc. subcontractor. The sludge/scale and tank cleaning materials will be containerized in 55-gallon drums.

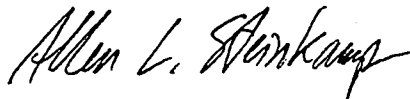
The material generated from the xylene AST must be classified for disposal as a hazardous waste. Accordingly, a sample of the waste will be submitted to Rollins/Aptus for analysis in order to obtain the appropriate waste characterization/acceptance. The xylene sample analysis will include RCRA metals, reactivity, corrosivity, ignitability, water percentage, BTU, ash and total halogen.

Upon the completion of the waste acceptance process, a Schreiber, Grana & Yonley, Inc. subcontractor will load such into appropriate transportation vehicle(s) to be supplied by Rollins/Aptus. All sludge/scale/rinsate/etc. generated during the cleaning process will be transported by Rollins/Aptus as a hazardous waste and incinerated at the Rollins/Aptus facility in Coffeyville, Kansas.

Please review this correspondence at your earliest convenience and direct questions regarding any of the information presented herein to the undersigned at (314) 349-8399.

Sincerely,

SCHREIBER, GRANA & YONLEY, INC.



Allen L. Steinkamp, C.P.G.
Staff Hydrogeologist



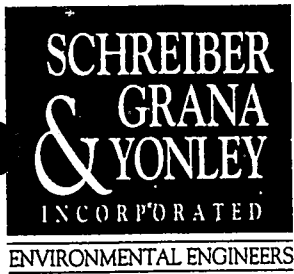
Douglas L. Abeln
Engineering Manager

ALS/DLA/cct

cc: Mr. Gerry Korb - The Knapheide Mfg. Co.

knp07/aptusast.ltr

cc: Bryce
7-31-95
D



271 Wolfner Drive • Saint Louis, Missouri 63026
314/349-8399 • Fax 314/349-8384

July 25, 1995

Mr. Gerry Korb
Vice President - Manufacturing
The Knapheide Mfg. Co.
P.O. Box C-140
436 South 6th Street
Quincy, IL 62306-2140

Re: Revised Proposal No. 953436B
Wood Preservative Treatment Building
West Quincy, Missouri

Dear Mr. Korb:

This letter presents a revised proposal for performing closure of the wood preservative treatment building located at The Knapheide Mfg. Co. (Knapheide) facility in West Quincy, Missouri. Consistent with discussions with Mr. Harold D. Huggins, formerly employed by Knapheide, on August 26, 1994, December 13, 1994, January 11, 1995, and April 4, 1995, as well as subsequent research, this closure plan is designed to be both cost effective and responsive to applicable environmental regulations. This revision to the previous proposals is based on the April 4, 1995 request of Knapheide and July 11, 1995 written comments received from Ms. Sandra L. Oberkfell of Rudnick & Wolfe.

Bids were obtained from local and regional contractors to remove a wood preservative treatment building, as well as a 10,000-gallon above ground storage tank (AST), a dip tank, and all associated piping and pumps.

According to the information supplied by Knapheide, the AST contains an estimated liquid/sludge mixture volume of ~~3000 gallons~~. This mixture is comprised of Woodtreat[®] wood preservative, a mineral spirit based wood preservative which contains no pentachlorophenol. According to process knowledge of the operations provided by Knapheide, Woodtreat[®] has been used exclusively since 1986. The AST was completely emptied of its liquid contents in November 1992. Prior to the flooding of 1993, Knapheide pumped the contents of the dip tank into the AST for safe storage during the flooding. Upon the recedeance of the flood waters, Knapheide arranged for the sampling of the wood treatment liquid in the AST and analyzed it for pentachlorophenol. This sampling occurred on March 25, 1994. The analysis indicated ~~pentachlorophenol at a concentration of 112 parts per million (ppm).~~



Mr. Korb
Page 2
July 25, 1995

Because the AST has been emptied of its liquids at least once since the discontinuation of the usage of pentachlorophenol, and the fact that the contents of the dip tank were pumped into the AST, subsequently, the detected pentachlorophenol (112 ppm) is representative of a spent formulation. Therefore, the applicable EPA waste code for the contents of the AST is F032. Because of the presence of pentachlorophenol at or above 100 ppm, an additional waste code of D037 would also apply. Additionally, waste code D001 would also apply if the flash point of the solution is less than 140°F.

40 CFR 261.35 provides the procedure for the cleaning of the tanks after all contents are removed. It also mentions that if the equipment is not cleaned per this procedure, the disposal will have to be managed as F032 hazardous waste. However, if the AST and dip tank are cut up and recycled as scrap metal, the exemption provided under 40 CFR 261.6(a)(3)(iii) applies. This exemption states that certain recyclable materials (e.g., scrap metal) are not subject to regulation under parts 262 through 266, or parts 268, 270 or 124.

Based on our research, Schreiber, Grana & Yonley, Inc. presents the following recommendations for the closure of the wood preservative building:

1. The liquid contents of the AST were sampled in order to obtain the appropriate waste characterization/acceptance at the Rollins Environmental Inc./Aptus Inc. (Rollins/Aptus) facility in Coffeyville, Kansas. This sample analysis will include RCRA metals, reactivity, corrosivity, ignitability, water percentage, BTU, ash and total halogen.

During the April 4, 1995 meeting, the scope of work contained in Proposal #95-3436 dated January 18, 1995 (less the proposal revisions contained herein) was approved. Subsequently, an ~~AST liquid sample~~ was obtained on April 10, 1995. The sample has not yet been submitted for analysis due to the lack of a Knapheide executed Rollins/Aptus contract.

The costs associated with Task 1 as contained in the January 18, 1995 proposal remain as a part of this revised proposal for consistency.

2. The roof and walls of the building will be dismantled. ~~The recyclable material such as scrap will be disposed of at a recycling facility in Quincy, Illinois. The non-recyclable material will be disposed of as a demolition waste at the BFL Backridge sanitary landfill located to the north of West Quincy, Missouri.~~ Disposal receipts will be obtained for all material removed from the site. As directed on April 21, 1995 by Mr. Harold D. Huggins, the concrete floor is to remain in place. This work will be performed by ~~Christner~~ Company (Christner) of Quincy, Illinois.
3. Upon receipt of pentachlorophenol waste stream approval from Rollins/Aptus, the liquid contents of the AST and dip tank (if any) will be pumped into an appropriate transportation vehicle(s) to be supplied by Rollins/Aptus. It is assumed that the total volume of the waste liquid will be 2,500 gallons. The liquid will be disposed of as F032/D037/D001 hazardous



Mr. Korb
Page 3
July 25, 1995

waste at the Rollins/Aptus facility in Coffeyville, Kansas. It is assumed that no demurrage fees will be accrued.

4. ~~Sludge and scale will be removed by scraping and/or washing with diesel fuel.~~ The AST, dip tank and associated equipment (such as pumps and piping) will be rinsed with diesel until no visible residues are observed. The sludge and associated material will be containerized in 55-gallon drums. It is assumed that the total volume of the sludge/rinsate will be ~~600~~ ^{600-12 drums} gallons, with each drum weighing approximately 600 pounds. This work will be performed by R. Cooper Contracting Services, Inc. (Cooper) of St. Louis, Missouri.
5. ~~The cleaned AST, dip tank, and piping and pumps will be sent to a metal recycling facility as scrap metal.~~ This shipment will be handled as non-hazardous waste based on the exemption provided for in 40 CFR 261.6(a)(3)(iii). This work will be performed by Cooper.
6. After removing the dip tank, a soil sample will be collected from beneath the dip tank. The soil sample will be submitted to Specialized Assays, Inc. (Specialized Assays) analytical laboratory in Nashville, Tennessee for total pentachlorophenol analysis according to SW-846 Method 8270. If the sample indicates contamination of pentachlorophenol above the proposed USEPA action level of 2000 ppm, then soil remediation may be required. Otherwise, no further action would be necessary. For the purposes of this proposal, ~~this~~ assumed that subsurface remediation activities will not be conducted.
7. All sludge and rinsate generated during the cleaning process will be disposed of as F032/D037/D001 hazardous waste at the Rollins/Aptus facility in Coffeyville, Kansas. It is assumed that no demurrage fees will accrue.
8. Upon the completion of the above tasks and receipt of all analytical data, Schreiber, Grana & Yonley, Inc. will prepare a short correspondence detailing the procedures and methodologies which were implemented. This correspondence will be submitted to Knapheide and counsel for review. The costs associated with this report assume that the soil will not require any remediation. If remediation becomes necessary, the concrete floor may need to be removed at a later date.

~~Task 1~~ encompassed a ~~one-day site mobilization~~. ~~Task 2~~ is estimated to encompass a ~~three-day site mobilization~~. ~~Task 3~~ is estimated to encompass a ~~one-day site mobilization~~, while ~~Tasks 4, 5, and 6~~ are estimated to encompass a ~~two-day site mobilization~~. All scrap metal and building debris will be hauled to the appropriate receiving facilities during the Task 2 mobilization. Task 7 will involve an ~~additional one-day site mobilization~~ in order to provide oversight and waste manifesting of the transportation of the containerized sludge/rinsate to the Rollins/Aptus facility for subsequent treatment.

Mr. Korb
Page 4
July 25, 1995

A cost estimate breakdown of the above work tasks is presented below in Table 1:

TABLE 1

WOOD PRESERVATIVE TREATMENT BUILDING CLOSURE COST ESTIMATE

Task	Labor	Expenses	Analytical	Demolition and Tank Contractors	Liquid/ Sludge Disposal	Total
1) Sample liquid in AST	\$320	\$150	\$550	--	--	\$1,020
2) Dismantle & dispose roof and walls	--	--	--	\$6,000	--	\$6,000
3) Dispose of liquid contents in AST/dip tank	\$750	\$150	--	--	\$7,700	\$8,600
4) Clean and dismantle AST, dip tank, pumps and piping, containerize sludge and rinsate	\$2,000	\$500	--	\$4,000	--	\$6,770
5) Dispose of AST, dip tank, pumps, piping			--		--	
6) Sample soil beneath dip tank			\$270		--	
7) Dispose of containerized sludge/rinsate	\$625	\$150	--	--	\$8,300	\$9,075
8) Correspondence development, project management	\$4,200	--	--	--	--	\$4,200
TOTAL:	\$7,895	\$950	\$820	\$10,000	\$16,000	\$35,665

Schreiber, Grana & Yonley, Inc. proposes to provide services necessary to complete all activities on a time-and-expense basis. The budget outlined in Table 1 will not be exceeded without prior approval from Knapheide. All subcontractor invoices will be forwarded directly to Knapheide for payment.

Upon your approval of this proposal, Schreiber, Grana & Yonley, Inc. will contact Mr. Doug Allen of the Missouri Department of Natural Resources (MDNR) in order to present and discuss the anticipated scope of work. This will allow the MDNR an opportunity to present any questions, as well as to offer any advice regarding the project. A preliminary discussion regarding the scope of work outlined in this proposal was held with Mr. Allen on May 9, 1995.

Upon completion of this, Schreiber, Grana & Yonley, Inc. will proceed with the implementation of the final, approved wood preservative treatment building closure process.



Mr. Korb
Page 5
July 26, 1995


Should you have questions or require further information, please contact the undersigned at (314) 349-8399. Schreiber, Grana & Yonley, Inc. appreciates the opportunity to provide our services to Knapheide.

Sincerely,

SCHREIBER, GRANA & YONLEY, INC.



Allen L. Steinkamp, C.P.G.
Staff Hydrogeologist



Douglas L. Abeln
Engineering Manager

ALS/DLA/cct

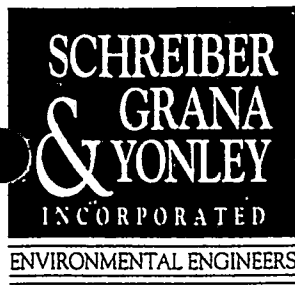
Attachment

cc: Ms. Sandra L. Oberkfell - Rudnick & Wolfe

sgy\sgy22\knp3436b.pro



cc: Bryce 7-21-95
D



271 Wolfner Drive ■ Saint Louis, Missouri 63026
314/349-8399 ■ Fax 314/349-8384

July 25, 1995

Ms. Sandra L. Oberkfell
Rudnick & Wolfe
203 North LaSalle Street
Chicago, IL 60601-1293

Re: Wood Treatment Building PCP Waste Disposal
Rollins/Aptus Scope of Services

Dear Ms. Oberkfell:

This letter has been prepared according to your July 13, 1995 verbal request involving documentation of the services and unit costs associated with the transportation and disposal of various materials related to a wood treatment building located at The Knapheide Mfg. Co. (Knapheide) facility in West Quincy, Missouri.

A letter dated January 4, 1995 from Westinghouse Environmental Services Business Unit, at that time the parent company of Aptus, Inc. (Aptus), contained the following unit costs to conduct activities involving the disposal of liquid and sludge containing pentachlorophenol (PCP; waste code F032) from an above ground storage tank (AST) and a dip tank located in an existing wood treatment building at the Knapheide facility:

1) Transportation:

- OK • Transportation of liquid from West Quincy, Missouri to Coffeyville, Kansas: ~~\$4.00~~ ^{390 mi} per loaded mile, 1.1
- Transportation of containerized sludge from West Quincy, Missouri to Coffeyville, Kansas: ~~\$0.14~~ per pound
- Demurrage after two hours: \$75.00 per hour

2) Disposal:

- Incineration of liquid at the Aptus-Coffeyville, Kansas facility: \$0.30 per pound
- Incineration of sludge at the Aptus-Coffeyville, Kansas facility: \$1.10 per pound (includes a repacking fee)
- Kansas RCRA Waste Treatment fee: \$10.00 per ton

3) Other Charges:

- Waste analysis/profiling fee per waste stream: \$550.00

Subsequent to the January 4, 1995 letter, Aptus was sold to Rollins Environmental, Inc. (Rollins). An April 13, 1995 conversation between Mr. Allen L. Steinkamp of Schreiber, Grana & Yonley, Inc. and Mr. John Getzinger of Rollins/Aptus indicated that the costs contained in the January 4, 1995 letter would remain valid for six (6) months, i.e., June 4, 1995, after which time a six (6) percent cost increase would occur.



Ms. Oberkfell
July 25, 1995
Page 2

The scope of services to be provided by Rollins/Aptus regarding the liquid/sludge PCP disposal are directly related to the scope of work described in the June 2, 1995 proposal sent to Mr. Harold D. Huggins of Knapheide. These tasks are as follows:

1) PCP Waste Analysis/Profiling

The liquid contents of the AST will be analyzed by Rollins/Aptus in order to obtain the appropriate waste characterization/acceptance at the Rollins/Aptus facility in Coffeyville, Kansas. This sample analysis will include RCRA metals, reactivity, corrosivity, ignitability, water percentage, BTU, ash and total halogen.

2) PCP Liquid Disposal

Upon receipt of PCP waste stream approval from Rollins/Aptus, the liquid contents of the AST and dip tank (if any) will be pumped by Schreiber, Grana & Yonley, Inc. personnel or a subcontractor into an appropriate transportation vehicle(s) to be supplied by Rollins/Aptus. The contents will be transported by Rollins/Aptus and incinerated as F032/D037/D001 hazardous waste at the Rollins/Aptus facility in Coffeyville, Kansas.

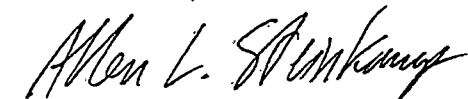
3) PCP Sludge Disposal

Sludge and scale will be removed from the AST and dip tank by a Schreiber, Grana & Yonley, Inc. subcontractor. The sludge/scale and tank cleaning rinsate will be containerized in 55-gallon drums. A Schreiber, Grana & Yonley, Inc. subcontractor will load such into appropriate transportation vehicle(s) to be supplied by Rollins/Aptus. All sludge/scale and rinsate generated during the cleaning process will be transported by Rollins/Aptus as F032/D037/D001 hazardous waste and incinerated at the Rollins/Aptus facility in Coffeyville, Kansas.

Please review this correspondence at your earliest convenience and direct questions regarding any of the information presented herein to the undersigned at (314) 349-8399.

Sincerely,

SCHREIBER, GRANA & YONLEY, INC.



Allen L. Steinkamp, C.P.G.
Staff Hydrogeologist



Douglas L. Abeln
Engineering Manager

ALS/DLA/cct

cc: Mr. Gerry Korb - The Knapheide Mfg. Co.

knp07/aptuspcp.ltr



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 12 1991

OFFICE OF ENFORCEMENT

MEMORANDUM

SUBJECT: Policy on the Use of Supplemental ~~Environmental~~ ^{Environmental} Projects in EPA Settlements

FROM: James M. Strock *[Signature]*
Assistant Administrator

TO: Regional Administrators
Deputy Regional Administrators
Regional Counsels
Regional Program Division Directors
Assistant Administrators
General Counsel
Program Compliance Directors
Associate Enforcement Counsels

This memorandum transmits the new Agency policy on the use of "supplemental environmental projects" in Agency consent orders and decrees. It amends GM-22, "A Framework for Statute-Specific Approaches to Penalty Assessments: Implementing EPA's Policy on Civil Penalties" (issued February 16, 1984), by replacing and superseding the section on "Alternative Payments" on pages 24-27 of that document. Please note that this policy amends only the section on "alternative payments" and that all other sections of GM-22 remain in effect.

In the past, the Agency has used several terms to describe substantive settlement conditions (usually projects or activities), other than those required as injunctive relief to correct the underlying violation, which the defendant/respondent may undertake in exchange for a reduction in the amount of the assessed civil penalty. In GM-22, these conditions are called "alternative payments." They also have periodically been referred to as "mitigation projects" or "environmentally beneficial expenditures." The Agency's past experience with these projects has sometimes been problematic, in part because GM-22 did not fully describe the kinds of projects that are appropriate for penalty reduction, the situations under which they should be considered, and the amount by which the penalty demand can be reduced.



Supplemental Environmental Projects

A. Introduction

In settlement of environmental enforcement cases, the United States will insist upon terms which require defendants to achieve and maintain compliance with Federal environmental laws and regulations. In certain instances, additional relief in the form of projects remediating the adverse public health or environmental consequences of the violations at issue may be included in the settlement to offset the effects of the particular violation which prompted the suit. As part of the settlement, the size of the final assessed penalty may reflect the commitment of the defendant/respondent to undertake environmentally beneficial expenditures ("Supplemental Environmental Projects").

Even when such conditions serve as a basis for considering a Supplemental Environmental Project, the Agency's penalty policies will still require the assessment of a substantial monetary penalty according to criteria described in "Implementing EPA's Policy on Civil Penalties" (GM-22), generally at a level which captures the defendant/respondent's economic benefit of noncompliance plus some appreciable portion of the gravity component of the penalty. Each administrative settlement in which a "horizontal" Supplemental Environmental Project or substitute performance is proposed (see below) must be approved by the Assistant Administrator for Enforcement, and, where required by the Agency's delegations policy, the media Assistant Administrator. Judicial settlements including any of the projects described herein will continue to require the approval of the Assistant Administrator for Enforcement and also be approved by the Assistant Attorney General for the Environment and Natural Resources Division.

EPA will expand its approach to Supplemental Environmental Projects while also maintaining a nexus (relationship) between the original violation and the supplemental project. EPA may approve a supplemental project so long as that project furthers the Agency's statutory mandates to clean up the environment and deter violations of the law.¹ Accordingly, supplemental projects may be considered if: (1) violations are corrected through

¹ A mitigation project cannot be used to resolve violations at a facility other than the facility or facilities which are the subject of the enforcement action. This would run counter to deterrence objectives, since it would effectively give a company a penalty "break" for violations at one facility for undertaking what amounts to legally required compliance efforts at another facility. Such a scenario would operate to reward recalcitrance, poor-management practices, and non-compliance.

actions to ensure future compliance; (2) deterrence objectives are served by payment of a substantial monetary penalty as discussed above; and (3) there is an appropriate "nexus" or relationship between the nature of the violation and the environmental benefits to be derived from the supplemental project.

All supplemental projects must improve the injured environment or reduce the total risk burden posed to public health or the environment by the identified violations. The five categories of permissible supplemental activities are ^①pollution prevention, ^②pollution reduction, ^③environmental restoration, ^④environmental auditing projects, and ^⑤public awareness projects which are directly related to addressing compliance problems within the industry within which the violation took place. EPA negotiators should make it clear to a defendant/respondent interested in proposing a supplemental project that the Agency is looking only for these types of projects (cf. section F, below).

Under no circumstances will a defendant/respondent be given additional time to correct the violation and return to compliance in exchange for the conduct of a supplemental project.

B. Categories of Supplemental Environmental Projects

Five categories of projects will be considered as potential Supplemental Environmental Projects, subject to meeting the additional criteria described in succeeding sections.

1. Pollution Prevention Projects

Consistent with the Agency's forthcoming Pollution Prevention Policy Statement and Pollution Prevention Strategy, a pollution prevention project substantially reduces or prevents the generation or creation of pollutants through use reduction (i.e., by changing industrial processes, or by substituting different fuels or materials) or through application of closed-loop processes. A project which substantially reduces the discharge of generated pollutants through innovative recycling technologies may be considered a pollution prevention project if the pollutants are kept out of the environment in perpetuity.

2. Pollution Reduction Projects

A pollution reduction project is defined as a project which goes substantially beyond compliance with discharge limitations to further reduce the amount of pollution that would otherwise be discharged into the environment. Examples include a project that reduces the discharge of pollutants through more effective end-of-pipe or stack removal technologies; through improved operation and maintenance; or recycling of residuals at the end of the

pipe.²

Sometimes an acceptable pollution reduction project may encompass an "accelerated compliance project". For instance, assuming there is a statutory or regulatory schedule for pollution phaseout or reduction (or is likely to be proposed in the foreseeable future, e.g., an upcoming rulemaking), if a defendant/respondent proposes to complete a phaseout or reduction at least 24 months ahead of time, and such proposal for accelerated compliance can be demonstrated to result in significant pollution reduction (i.e., one can objectively quantify a substantial amount of pollution reduction due to the accelerated compliance) then such a proposal may proceed to be evaluated according to the rest of the appropriateness criteria below. In addition, if the defendant/respondent substitutes another substance for the one being phased out, he has the burden to demonstrate that the substance is non-polluting, otherwise no supplemental environmental project will be allowed and, indeed, additional liability may accrue.

3. Projects Remediating Adverse Public Health or Environmental Consequences (Environmental Restoration Projects)

An environmental restoration project is defined as a project that not only repairs the damage done to the environment because of the violation, but which goes beyond repair to enhance the environment in the vicinity of the violating facility.

4. Environmental Auditing Projects

Environmental Auditing that represents general good business practices are not acceptable supplemental projects under this policy (cf. Section E).³ However, such a project may be considered by the Agency if the defendant/respondent undertakes additional auditing practices designed to seek corrections to existing management and/or environmental practices whose deficiencies appear to be contributing to recurring or potential

² Where the obligation to reduce the pollution is already effective, or is subject to an "as soon as practicable" or comparable standard, a proposal to further reduce pollution would not fulfill the definition of a pollution reduction project, and would not be appropriate.

³ It should be noted that the Agency has the authority to require an environmental audit as an element of injunctive relief when it deems it appropriate given the fact pattern surrounding the violation subject to the usual limits on the scope of injunctive relief.

violations. These other potential violations may encompass not only the violating facility, but other facilities owned and operated by the defendant/respondent, in order to identify, and correct as necessary, management or environmental practices that could lead to recurring or future violations of the type which are the basis for the enforcement action.⁴

Audit projects which fall within the scope of this policy can be justified as furthering the Agency's legitimate goal of encouraging compliance with and avoiding, as well as detecting, violation of federal environmental laws and regulations. Such audits will not, however, be approved as a supplemental project in order to deal with similar, obvious violations at other facilities.

5. Enforcement-Related Environmental Public Awareness Projects

These projects are defined as publications, broadcasts, or seminars which underscore for the regulated community the importance of complying with environmental laws or disseminate technical information about the means of complying with environmental laws. Permissible public awareness projects may include sponsoring industry-wide seminars directly related to correcting widespread or prevalent violations within an industry, e.g., a media campaign funded by the violator to discourage fuel switching and tampering with automobile pollution control equipment or one which calls for the defendant/respondent to organize a conference or sponsor a series of public service announcements describing how violations were corrected at a facility through the use of innovative technology and how similar facilities could also implement these production changes.

Public Awareness Projects directly serve Agency deterrence objectives and contribute indirectly to Agency enforcement efforts. Though they are not subject to the nexus requirement applicable to other supplemental environmental projects, they must be related to the type of violations which are/were the subject of the underlying lawsuit. Defendants/respondents who fund or implement a public awareness project must also agree to publicly state in a prominent manner that the project was undertaken as part of the settlement of a lawsuit brought by the Agency or a State. These projects will be closely scrutinized to ensure that they fulfill the legitimate objectives of this policy in all respects.

6. Projects Not Allowed as Supplemental Projects

⁴ Of course, this requirement is subject to the qualifications of footnote 1.

Several types of projects, which have been proposed in the past, would no longer be approvable Supplemental Environmental Projects. Examples of projects that would not be eligible include:

1. general educational or environmental awareness-raising projects (e.g., sponsoring public seminars about, or inviting local schools to tour, the environmental controls at a facility; promoting recycling in a community);
2. contribution to research at a college or university concerning the environmental area of noncompliance or concerning any other area of environmental study;
3. a project unrelated to the enforcement action, but otherwise beneficial to the community e.g., contribute to local charity);

C. "Nexus" (Relationship) of Supplemental Environmental Project to the Violation

The categories of Supplemental Environmental Projects described above (except for Public Awareness Projects) may be considered if there is an appropriate "nexus" or relationship between the nature of the violation and the environmental benefits to be derived from the type of supplemental project. For example, the "nexus" between the violation and an environmental restoration project exists when it remediates injury caused by the same pollutant at the same facility giving rise to the violation. Such projects must further the Agency's mission as defined by appropriate statutory mandates, including the purpose sections of the various statutes under which EPA operates. The Agency will evaluate whether the required "nexus" between the pollutant discharge violation and the project exists.

1. Requirements for Remediation Projects

Examples of circumstances presenting an appropriate nexus include:

- a. A project requiring the purchase of wetlands which then act to purge pollutants unlawfully discharged in receiving waters. In this example, EPA will evaluate whether the required "nexus" between the pollutant discharge violations and the wetlands to be purchased can be established. EPA will evaluate the nexus between the project and the violation in terms of both geography and the pollution treatment benefits of the wetlands.

- b. A project which calls for the acquisition and preservation of wetlands in the immediate vicinity of wetlands injured by unlawful discharges, in order to replace the environmental services lost by reason of such injury.
- c. A "restoration" project, such as a stream sediment characterization or remediation program to determine the extent and nature of pollution caused by the violation and to formulate and implement a plan for remediating sediment near the facility. Such a stream sediment characterization or restoration project, if obtainable as injunctive relief pursuant to the statutory provisions of the Clean Water Act in the particular case, would not be approvable as a supplemental project.
2. Nexus for Pollution Prevention/Pollution Reduction/Environmental Restoration/Environmental Auditing Projects

The "nexus" for pollution prevention, pollution reduction, environmental restoration and environmental auditing projects may either be vertical or horizontal, as described below.

a. Vertical "Nexus"

A "vertical" nexus exists when the supplemental project operates to reduce pollutant loadings to a given environmental medium to offset earlier excess loadings of the same pollutant in the same medium which were created by the violation in question. Even if the violations are corrected by reducing pollutant loadings to the levels required by law, further reductions may be warranted in order to alleviate the risk to the environment or public health caused by past excess loadings. Typically, such projects follow a violation back into the manufacturing process to address the root cause of the pollution. Such reductions may be obtained from the source responsible for the violation or, in appropriate cases, may be obtained from another source, either upstream, up gradient or upwind of the responsible source.

For example, if pollutants were discharged in violation of the Clean Water Act from a facility at a certain point along a river, an acceptable pollution reduction project would be to reduce discharges of that same pollutant at an upstream facility on the same river. Another classic example of a "vertical" pollution prevention activity is the alteration of a production process at a facility which handles a portion of the manufacturing process antecedent to that which caused the violation of the regulatory requirement in a way that yields reductions or total elimination of the residual pollutant

discharges to the environmental media assaulted by the violation. Both of these examples present the necessary nexus between the violation and the supplemental project.

b. Horizontal "Nexus"

A "horizontal" nexus exists when the supplemental project involves either (a) relief for different media at a given facility or b) relief for the same medium at different facilities. The nexus between supplemental projects in this category and the violation must be carefully scrutinized. The nexus will be met only if the supplemental project would reduce the overall public health or environmental risk posed by the facility responsible for the violation or enhances the prospects for reducing or eliminating the likelihood of future violations substantially similar to those which are the basis for the enforcement action. Approval of such projects is appropriate only where the terms of the settlement insure that the defendant/respondent will be subject to required injunctive relief prescribed by the compliance and deterrence policies stated in the various Acts and their implementing regulations. In those circumstances, the Agency believes the required nexus to the statutory goals has been met.

Following are examples of approveable projects demonstrating a "horizontal" nexus to the violation:

1. Violations of the Resource Conservation and Recovery Act or the Clean Water Act may have exposed the neighboring community to increased health risks because of drinking water contamination. In addition to correcting these violations, it may be appropriate to reduce toxic air emissions from the same facility in order to compensate for the excess health risk to the community which resulted from the RCRA or CWA violations.
2. A supplemental project is proposed which reduces pollutant discharges at a defendant/respondent's other facilities within the same air quality basin or water shed as at the facility which violated legal requirements applicable to releases of the same pollutant. In this case, the overall supplemental project would be designed to reduce the overall health or environmental risk posed by related operations to the environment or to the health of residents in the same geographic vicinity by reducing pollutant discharges to the air basin or watershed and to compensate for past excess discharges.

3. A supplemental project is proposed which reduces pollutant discharges at a defendant/respondent's other (non-violating) facility(ies). Such a project would be approveable where the violating and non-violating facilities are engaged in the same production activities and use the same production processes, where appreciable risks of violations and legal requirements applicable to releases of that same pollutant substantially similar to those at the violating facility are posed by the non-violating facility (ies), and where the defendant/respondent can establish that significant economies of scale would be achieved by incorporating pollution prevention process changes at both the violating and non-violating facilities. Alternatively, the settlement could call for the defendant/respondent to substitute input chemicals across all such facilities (e.g., replace higher toxic solvents with lower toxic solvents at all paint manufacturing plants) or to reduce the emissions loadings of particular emissions at all such facilities as part of a NESHAPS settlement. Such projects would, therefore, reduce the overall health or environmental risk posed by such operations to the environment or to the health of residents in the same geographic vicinity.
4. In settlement of a TSCA PMN violation for manufacturing a polymer without providing formal advance notice at a facility, the defendant/respondent could establish a closed loop recycling system to reduce the amount of that facility's product manufacturing waste which must be sent to a RCRA Subtitle C landfill. Operating the facility in violation of TSCA created a risk of unwarranted health or environmental injury. If TSCA penalty and injunction requirements have been met, then the supplemental project could be justified on the grounds that it would compensate for this unwarranted risk by reducing the overall health or environmental risk presented by the facility.

After the project category and "nexus" criteria have been met, a potential supplemental project must also meet the criteria described in the following sections, below. Most of the conditions below applied in the past, but some are new. All of these conditions must be met before a supplemental project may be accepted.

D. Status of the Enforcement Action/Compliance History of Defendant/Respondent

Any defendant/respondent against whom the Agency has taken an enforcement action may propose to undertake a supplemental project at any time prior to resolution of the action, although the Agency should consider both the status of the litigation/

administrative action and the resources that have been committed to it before deciding whether to accept it. In addition, the respondent's enforcement history and capability to successfully complete the project must be examined during evaluation of a supplemental project proposal.

The Agency negotiators must also consider whether the defendant/respondent has the technical and economic resources needed to successfully implement the supplemental project. In addition, a respondent who is a repeat offender may be a less appropriate respondent from which to receive and evaluate a supplemental project proposal than a first time violator.

E. Main Beneficiary of a Supplemental Environmental Project

The Federal Government's sole interest in considering supplemental projects is to ameliorate the adverse public health and/or environmental impacts of violations. Projects are not intended to reward the defendant/respondent for undertaking activities which are obviously in his economic self-interest (e.g., update or modernize a plant to become more competitive). Therefore, as a general rule, these projects will usually not be approved when they represent a "sound business practice", i.e., capital expenditures or management improvements for which the Federal negotiators may reasonably conclude that the regulated entity, rather than the public, is likely to receive the substantial share of the benefits which accrue from it.

The only exception to the prohibition against acceptance of a supplemental project which represents a "sound business practice" is for a pollution prevention project. Although a pollution prevention project can be viewed as a "sound business practice" since (by definition) it is designed both to make production more efficient and reduce the likelihood of noncompliance, it also has the advantage of potentially providing significant long-term environmental and health benefits to the public. Therefore, the "sound business practice" limitation will be waived only for pollution prevention projects if the Federal negotiators decide, after due consideration and upon a clear demonstration by the defendant/respondent as to what the public health and/or environmental benefits would be, that those benefits are so substantial that the public interest would be best served by providing additional incentives to undertake the project.

F. Extent to Which the Final Assessed Penalty can Reflect a Supplemental Environmental Project

Although supplemental projects may directly fulfill EPA's goal of protecting and restoring the environment, there is an

important countervailing enforcement goal that penalties should have the strongest possible deterrent effect upon the regulated community. Moreover, the Agency's penalty policies require the assessment of a substantial monetary penalty according to criteria described in "Implementing EPA's Policy on Civil Penalties" (GM-22), generally at a level which captures the defendant/respondent's economic benefit⁵ of noncompliance plus some appreciable portion of the gravity component of the penalty.⁶

In addition, EPA must not lower the amount it decides to accept in penalties by more than the after-tax amount the violator spends on the project. EPA should calculate the net present after tax value of the supplemental project at the time that the assessed penalty is being calculated. If a supplemental project is approved, a portion of the gravity component of the penalty may be mitigated by an amount up to the net present after-tax cost of the supplemental project, depending on the level of environmental benefits to the public.

G. Supplemental Environmental Projects for Studies

Supplemental Environmental Projects for studies will not be allowed without an accompanying commitment to implement the results. First, little or no environmental benefit may result in the absence of implementation. Second, it is also quite possible that this type of project is one which the violator could reasonably be expected to do as a "sound business practice".

Pollution prevention, pollution reduction and environmental restoration studies, as well as environmental audits, are defined narrowly for purposes of meeting Supplemental Environmental Project policy guidelines. They will only be eligible as supplemental projects if they are a part of an Agency-approved set of actions to reduce, prevent, or ameliorate the effects of pollution at the respondent's facility (e.g., a comprehensive waste minimization or emissions reduction program). The amount

⁵ Where a violation is found which did not confer a significant economic benefit, e.g. a failure to notify, the settlement must still include payment of a penalty which at least captures a portion of the proposed gravity component.

⁶ If a defendant/respondent can establish through use of documents and affidavits sworn under penalty of perjury that it cannot afford to pay the civil penalty derived from use of the appropriate civil penalty policy, the Agency will consider entering into an "ability to pay settlement" for less than the economic benefit of non-compliance.

attributable to a supplemental project may include the costs of necessary studies. Nonetheless, a respondent's offer to conduct a study, without an accompanying commitment to implement the results, will not be eligible for penalty reduction. In considering the applicability of a proposed study, the Agency negotiators will consider the likelihood of success, i.e., substantial pollution reduction or prevention, in making a determination.

While studies are not by themselves eligible supplemental environmental projects, to encourage pollution prevention, EPA will make a limited exception to this general approach pollution prevention studies. Such studies will be eligible for a penalty offset when they are part of an Agency-approved set of pollution prevention activities at a facility and are designed to correct the violation (e.g., a recycling feasibility study, waste minimization opportunity assessment, or waste reduction audit).

The size of the penalty offset may include the costs of the studies. The commitment to conduct the study also must be tangible (e.g., the project completed on schedule, etc.). The U.S. must have the authority to review the completed study to decide whether it is technologically and/or economically feasible to implement the results. Should the U.S. decide that the results can be implemented but the defendant/ respondent is unwilling to do so, the "offset" for the pollution prevention study will be rescinded and the final assessed penalty must be paid in full (cf. Section J. on payment assurance).

H. Substitute Performance of Supplemental Environmental Projects

A supplemental environmental project which meets the other criteria of this policy may consist in part or whole of substitute performance by an entity or entities other than the violator. Such a substitute must bear a reasonable geographical or media-specific relationship to the underlying violation. This substitute performance must be assured through agreements which are enforceable by EPA, and may consist of agreements for emissions limits, process design or input changes, natural resource preservation or conservation easements, or other means of achieving compliance with the terms of the proposed supplemental environmental project. In the event a violator proposes acceptable substitute performance, EPA will credit the violator with an amount up to the net after tax cost of the project as if it were being performed by the violator. The violator, will, however, remain responsible for the performance of the project or the payment of the penalty offset if substitute performance is not completed.

I. Level of Concurrence

There may be practical problems in administering cross-media and/or cross-regional projects. Staff allocations for oversight requirements will necessarily increase, as will the level of resources needed for tracking purposes since tracking a supplemental project is more complex than tracking whether a payment is made. In addition, the likelihood of new issues emerging due to noncompliance with the conditions of the project is significant.

The extent of coordination/concurrence for a supplemental project which involved more than one Region will vary according to the nature and complexity of the proposal. All affected Regions must be notified about a supplemental project which would have only a modest impact on facilities in those Regions (e.g., a commitment to undertake an environmental audit at all of the defendant/respondent's facilities across the country). However, all affected Regions would have to concur in a proposed supplemental project which would involve significant oversight resources or activities (e.g., a pollution prevention activity which required major construction or process changes). Also, all affected EPA parties must be consulted on their respective oversight responsibilities. As stated previously, judicial settlements, including any of the projects described herein, will continue to require the approval of the Assistant Administrator for Enforcement and also be approved by the Assistant Attorney General for the Environment and Natural Resources Division.

Each proposed administrative settlement which has a "horizontal" nexus to the violation or which involves substitute performance also must be approved by the Assistant Administrator for Enforcement and, where required by the Agency's delegations policy, the media Assistant Administrator.

J. Oversight/Tracking

Supplemental Environmental Projects may require third-party oversight. In such cases, these oversight costs should be borne by the respondent, and it must agree as a part of the settlement to pay for an independent, third-party auditor to monitor the status of the supplemental project. The auditor will be required by the settlement to submit specific periodic reports, including a final report evaluating the success or failure of the supplemental project, and the degree to which the project satisfied these guidelines. All reports must be submitted to EPA. Upon request, EPA may provide copies of the reports, or copies of portions of the reports, to the respondent. The timing and amount of reports released to the defendant/respondent shall be at EPA's sole discretion.

Obviously, a certain amount of government oversight will be required to monitor compliance with the terms of an agreement that contains a supplemental project. "Horizontal" pollution prevention or pollution reduction supplemental projects which involve more than one Region (e.g., production changes at more than one facility) may require additional oversight, and the estimated amount of time and resources required for effective oversight is another criteria which the negotiators should use to determine whether to include the project in the settlement agreement.

The consent order or decree shall specify overall timeliness and milestones to be met in implementing the supplemental project. If the defendant/respondent does not comply satisfactorily with the terms of the supplemental project, he shall be liable for the amount by which the assessed penalty was reduced (with applicable interest). The consent order or decree should contain a mechanism for assuring prompt payment, e.g., through stipulated penalties consistent with the other sections of this policy or, if appropriate, the posting of a bond (in the amount by which the assessed penalty was reduced) to be forfeited if the supplemental project is not fully implemented.

K. Documenting Approval Of Supplemental Environmental Project Proposals

In all cases where supplemental projects are approved as part of the settlement, the case file should contain documentation showing that each of the appropriateness criteria listed above have been met in that particular case. A copy of the evaluation and approval document shall be sent to the Office of Enforcement and the National Compliance Officer concurrent with the approval of the Regional Administrator, or other authorized approving official, and to the Assistant Attorney General for the Environment and Natural Resources Division.

L. Coverage of this Policy

This document revises and supercedes the appropriate sections of the Agency's general civil penalty policy (GM-22), and constitutes Agency policy relating to supplemental environmental projects. Media-specific penalty policies will be revised as soon as possible to be consistent with it. During this interim period, in the event of any conflict between this general policy and a media-specific policy, this policy is controlling.

CR 4/19/93

DATE: 08/18/93 The Knapheide Mfg Co
TO: Norman Haerr
Fabius Drainage District
FROM: T Mentzer
SUBJECT: FEMA

Enclosed, please find summary and detail of Flood 1993 items to date for claims submission to FEMA for The Knapheide Mfg Co.

Summary - Use as billing to District

Labor - Wage and Salary Personnel	\$341,250

Machinery & Equipment	\$ 60,886

Supplies Used	\$ 1,402

Supplies Purchased	\$125,353

Sand Bags 30,000 @ .20ea	\$ 6,000

Boat Loss-submerged 30+ days	\$ 3,486

Total	\$538,377
	=====
	REIMBURSEMENT 282,882
	=====
	255,495

If there is anything Knapheide can do to help the Drainage District, please give me a call; Clerical assistance, Manpower, etc.

Thank you for your assistance in coordinating the filing.

J. T. Mentzer
Accounting Manager



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

217/782-2113

2200 Churchill Road, Springfield, IL 62794-9276

OPERATING PERMIT - REVISED

PERMITTEE

The Knapheide Manufacturing Company
Attn: Harold Huggins
436 South Sixth Street
Quincy, Illinois 62301

Application No.: 93090031

I.D. No.: 001065AFY

Applicant's Designation: 0993001

Date Received: July 18, 1994

Subject: Paint Booths and Associated Equipment

Date Issued: September 28, 1994

Operating Permit Expiration

Date: April 1, 1996

Location: 436 South Sixth Street, Quincy

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of eight paint booths with filters, three bake ovens, welding equipment, wood working machine with cyclone dust collector and one gas-fired boiler as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. Usage of coatings and solvents, volatile organic material (VOM) content of each, and VOM emissions from coating operations shall not exceed the following:

<u>Material</u>	<u>Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
	<u>Gal/Mo^a</u>	<u>Gal/Yr</u>	<u>Lb/Gal^b</u>	<u>Lb/Mo^a</u>	<u>T/Yr</u>
Coating ^c	3820/4780	41200	5.25	20050/25100	108.2
Solvent ^d	2930/3670	31650	7.8	22850/28650	123.5
Total					231.7
Credit for waste					35.8
					195.9

- a The Permittee divides their quarters into four, four and five week periods. These values are for four week and five week months, respectively. Values are 25% more for five week months.

b Monthly weighted average value

c As received

d Including hardeners, reducers, accelerators and any other solvent added to coating or used for cleanup

- b. The VOM content of coatings as delivered to the coating applicator shall not exceed 6.6 lb/gal. This may be determined from standard mix ratios and the VOM content of the materials in the mix.

2. Firing rate, hours of operation and emissions of nitrogen oxides (NOx) from the gas-fired Cleaver Brooks boiler shall not exceed the following:

Firing Rate (mmbtu/hr)	NOx Emissions	
	(lb/hour)	(ton/yr)
4.0	0.4	1.8

3. This permit is issued based on negligible emissions of particulate matter from the welding equipment, woodworking operations/cyclone and coating equipment, i.e., paint booths and ovens. For this purpose emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
4. Compliance with annual limits shall be determined from a running total of 12 months of data.
- 5a. The Permittee shall maintain records of the following items, and such other items as may be appropriate to allow the Agency to review compliance with the limits in Condition 1 through 3.
- i. Coating and solvent usage (gal/mo)
 - ii. VOM content of coatings and solvent (lb/gal)
 - iii. Calculation of monthly weight average VOM content of coatings shall be done by the 15th day of the following month.
 - iv. VOM emissions (lb/month)
- b. The Permittee shall maintain records of the VOM contained in coating waste sent offsite (weight and % VOM).
- c. These records shall be retained for two years and shall be available for inspection by the Agency.
6. This permit is issued based upon the provisions of Pollution Control Board Variance 93-169.

This permit has been revised to include operation of the equipment described in construction permit 94070070 for a new bake oven and removal of two booths and to revise the paint usage values.

If you have any questions on this, please call Dan Punzak at 217/782-2113.



Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DGP:10/0415P/83-4sp

cc: Region 2



Illinois
Environmental
Protection Agency

2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

March 1994

TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE B: AIR POLLUTION

Chapter I: POLLUTION CONTROL BOARD

State of Illinois



Rules and Regulations

This printing of Title 35: Environmental Protection,
Subtitle B: Air Pollution, Chapter I: Pollution Control Board
includes amendments through March, 1994

TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE B: AIR POLLUTION

CHAPTER I: POLLUTION CONTROL BOARD

**SUBCHAPTER c: EMISSIONS STANDARDS
AND LIMITATIONS FOR STATIONARY SOURCES**

**PART 215
ORGANIC MATERIAL EMISSION STANDARDS
AND LIMITATIONS**

SUBPART A: GENERAL PROVISIONS

Section

- 215.100 Introduction
- 215.101 Clean-up and Disposal Operations
- 215.102 Testing Methods
- 215.103 Abbreviations and Conversion Factors
- 215.104 Definitions
- 215.105 Incorporations by Reference
- 215.106 Afterburners
- 215.107 Determination of Applicability
- 215.108 Measurement of Vapor Pressures
- 215.109 Monitoring for Negligibly Reactive Compounds

**SUBPART B: ORGANIC EMISSIONS FROM
STORAGE AND LOADING OPERATIONS**

Section

- 215.121 Storage Containers
- 215.122 Loading Operations
- 215.123 Petroleum Liquid Storage Tanks
- 215.124 External Floating Roofs
- 215.125 Compliance Dates and Geographical Areas
- 215.126 Compliance Plan
- 215.127 Emissions Testing
- 215.128 Measurement of Seal Gaps

**SUBPART C: ORGANIC EMISSIONS FROM
MISCELLANEOUS EQUIPMENT**

Section

- 215.141 Separation Operations
- 215.142 Pumps and Compressors
- 215.143 Vapor Blowdown
- 215.144 Safety Relief Valves

SUBPART E: SOLVENT CLEANING

Section

- 215.181 Solvent Cleaning in General
- 215.182 Cold Cleaning
- 215.183 Open Top Vapor Degreasing
- 215.184 Conveyorized Degreasing
- 215.185 Compliance Plan

SUBPART F: COATING OPERATIONS

Section

- 215.202 Compliance Schedules
- 215.204 Emission Limitations for Manufacturing Plants
- 215.205 Alternative Emission Limitations
- 215.206 Exemptions from Emission Limitations
- 215.207 Compliance by Aggregation of Emission Sources
- 215.208 Testing Methods for Volatile Organic Material Content
- 215.209 Exemption from General Rule on Use of Organic Material
- 215.210 Alternative Compliance Schedule
- 215.211 Compliance Dates and Geographical Areas
- 215.212 Compliance Plan
- 215.213 Special Requirements for Compliance Plan
- 215.214 Roadmaster Emissions Limitations
- 215.215 DMI Emissions Limitations

**SUBPART H: SPECIAL LIMITATIONS FOR SOURCES
IN MAJOR URBANIZED AREAS WHICH ARE
NONATTAINMENT FOR OZONE**

Section

- 215.240 Applicability
- 215.241 External Floating Roofs
- 215.245 Flexographic and Rotogravure Printing
- 215.249 Compliance Dates

**SUBPART I: ADJUSTED RACT EMISSIONS
LIMITATIONS**

Section

- 215.260 Applicability
- 215.261 Petition
- 215.263 Public Hearing
- 215.264 Board Action
- 215.267 Agency Petition

SUBPART K: USE OF ORGANIC MATERIAL

Section

- 215.301 Use of Organic Material
- 215.302 Alternative Standard
- 215.303 Fuel Combustion Emission Sources
- 215.304 Operations with Compliance Program
- 215.305 Viscose Exemption (Repealed)

SUBPART N: VEGETABLE OIL PROCESSING

Section

- 215.340 Hexane Extraction Soybean Crushing
- 215.342 Hexane Extraction Corn Oil Processing
- 215.344 Recordkeeping For Vegetable Oil Processes
- 215.345 Compliance Determination
- 215.346 Compliance Dates and Geographical Areas
- 215.347 Compliance Plan

SUBPART P: PRINTING AND PUBLISHING

Section

to meet the requirements of the Occupational Safety and Health Act (29 U.S.C. Section 651 et seq.).

- 2) Solvent carryout emissions are minimized by:
 - A) Racking parts for best drainage; and
 - B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11 ft/min);
- 3) Waste solvent is stored in covered containers only and not disposed of in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
- 4) Solvent leaks are repaired immediately;
- 5) Water is not visually detectable in solvent exiting from the water separator; and
- 6) Downtime covers are placed over entrances and exits of conveyorized degreasers immediately after the conveyors and exhausts are shut down and not removed until just before start-up.

b) **Equipment Requirements:** No person shall operate a conveyorized degreaser unless:

- 1) The degreaser is equipped with a drying tunnel, rotating (tumbling) basket or other equipment sufficient to prevent cleaned parts from carrying out solvent liquid or vapor;
- 2) The degreaser is equipped with the following switches:
 - A) A device which shuts off the sump heat source if the amount of condenser coolant is not sufficient to maintain the designed vapor level;
 - B) A device which shuts off the spray pump or the conveyor if the vapor level drops more than 10 cm (4 in) below the bottom condenser coil; and
 - C) A device which shuts off the sump heat source when the vapor level exceeds the design level;
- 3) The degreaser is equipped with openings for entrances and exits that silhouette workloads so that the average clearance between the parts and the edge of the degreaser opening is less than 10 cm (4 in) or less than 10 percent of the width of the opening;
- 4) The degreaser is equipped with downtime covers

for closing off entrances and exits when the degreaser is shut down; and

- 5) The degreaser is equipped with one of the following control devices, if the air/vapor interface is larger than 2.0 square meters (21.6 square feet):
 - A) A carbon adsorption system with ventilation greater than or equal to 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when downtime covers are open, and exhausting less than 25 ppm of solvent by volume averaged over a complete adsorption cycle; or
 - B) Any other equipment or system of equivalent emission control as approved by the Agency. Such equipment or system may include a refrigerated chiller.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.185 Compliance Plan

- a) Solvent cleaning and degreasing were subject to certain compliance dates which are summarized in Appendix C. Compliance programs were required under 35 Ill. Adm. Code 201, Subpart H.
- b) Cold cleaning degreasers were not required to submit a compliance plan or project completion schedule under 35 Ill. Adm. Code 201, Subpart H.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

SUBPART F: COATING OPERATIONS

Section 215.202 Compliance Schedules

Owners or operators of coating lines were required to take certain actions to achieve compliance which are set forth in Appendix C.

(Source: Amended at 3 Ill. Reg. 30, p. 124, effective July 28, 1979)

Section 215.204 Emission Limitations for Manufacturing Plants

No owner or operator of a coating line shall cause or allow the emission of volatile organic material to exceed the following limitations on coating materials, excluding water and any compounds which are specifically exempted from the definition of volatile organic material pursuant to this Part, delivered to the coating applicator:



State of Illinois

ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

The Knepheide Manufacturing Company
Attn: Harold Huggins
436 South Sixth Street
Quincy, IL 62306-2140

Application No.: 94070070I.D. No.: 001065AFYApplicant's Designation:Date Received: July 18, 1994Subject: UB Bake OvenDate Issued: August 1, 1994Location: 436 South Sixth Street, Quincy

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of one bake oven for curing of high solids coatings as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

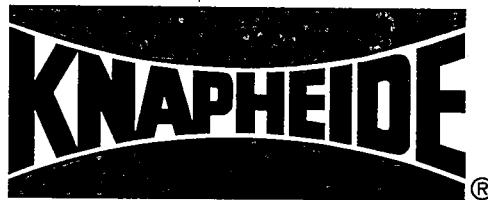
1. This permit is issued based upon use of the new oven for curing of high solids coatings that will be applied to metal parts in several existing coating booths. The high solids coatings contain less volatile organic material (VOM) per gallon than the current coatings and thus emissions of VOM will be reduced. Two existing coating booths (Nos. 3 and 5) will be removed to make space for this new oven. The existing coating operations are included in operating permit 93090031, into which this new oven will be incorporated.

If you have any questions on this, please call Dan Punzak at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:DGP:jar/0299Q,69

cc: Region 2



SINCE 1848

The Knapheide Mfg. Co. ■ 436 South Sixth Street ■ P. O. Box C-140 ■ Quincy, Illinois 62306-2140
TEL: (217) 222-7131 ■ FAX: (217) 222-5939 OR (800) 654-8997

September 6, 1994

MR DAN PUNZAK
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR CONTROL
1340 NORTH NINTH STREET
P O BOX 19275
SPRINGFIELD IL 52794-9275

RE: Revision to Operating Permit #001065AFY/93090031

Dear Mr. Punzak:

The construction permit (#94070070) was issued by IEPA on Aug.1, 1994 to construct this bake oven. Previously installed paint booths (#3 and #5) have been removed to make space for this new oven. The construction of the utility body bake oven designated as bake oven #3 in our application dated 7-11-94 for construction and operation permit has been completed.

As we reviewed in our meeting July 19, 1994, the change to high solids paint is having a very favorable effect on our VOC emissions. Per our discussion, I have recalculated the 1995 quantities in section 1A of permit. to be, worst case based on maximum usage, as follows:

Section 1A:

Material	<u>Gal/Mo</u>		<u>Gal/Yr</u>	<u>Lb/Gal</u>	<u>Lb/Mo</u>		<u>Ton/Yr</u>
	4 wk mo	5 wk mo			4 wk mo	5 wk mo	
Coating	3,818	4,773	41,205	5.25	20,046	25,057	108.16
Solvent	2,933	3,666	31,653	7.80	22,877	28,595	<u>123.45</u>
					Total		231.61
					Credit		<u>35.79</u>
					Ton/Yr		195.82

Attachment 1 and 1A indicates the production days per month and the month ending date for 1994 and 1995.

*Attachment 2 documents the reduction of coatings consumption from 4,888 gallons per month to an average of 2985 gallons per month. Solvents started at 2486 gallons per month and were reduced to an average of 1559 gallons per month. Attachment 2A is the estimated consumption for 1995 based on current usage.



SINCE 1848

MR DAN PUNZAK
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR CONTROL
September 6, 1994
Page 2

*Attachment 3 documents the reduction of average VOC pounds per gallon of coatings from 5.08 to 3.36 lbs. per gallon. Solvent is reduced from 7.01 pounds per gallon average to 5.93 pounds per gallon average. 3A indicates the continuation of the average thru 1995.

*Attachment 4 shows the starting rate in pounds of VOCs per month of; coatings 22,329 lbs.; solvent 21,128 lbs.; and total 43,457 lbs. If annualized this would have resulted in emissions of 261 tons per year! With the changes to our process and material, we estimate a monthly average emissions of; coatings 10,037 lbs.; solvent 8,679 lbs.; and total 18,716 lbs. 4A is the 1995 continuation of the average by month.

The table below compares the monthly average emissions before & after the coating changes.

	Beginning of 1994 year Emissions	Current Emissions	% Reduction
Coating	22,329 LBS.	10,037 LBS.	55%
Solvent	21,128 LBS.	8,679 LBS.	59%
Total	43,457 LBS.	18,716 LBS.	57%

With the facilities limitations in our existing temporary location, we feel this is the best we will achieve. The Knapheide Mfg. Co. is currently evaluating the latest technology of environmentally friendly finishing processes.

As of September 1, 1994, The Knapheide Mfg. Co. has not been able to purchase land for a permanent location.

Sincerely,

THE KNAPHEIDE MFG. CO.

Harold Huggins

Harold Huggins
Facilities and Environmental Engineering Manager

HH:dd

cc: Sandra Oberkfell, Esq.
Viraf Palsetia
Gerry Korb

MATERIAL SAFETY DATA SHEET

TR-10

91010060

Date of Preparation: April, 1994

Section I - Product Information

Manufacturer: Akzo Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Class: Solvent Blend
Packing Group: III

Emergency Telephone:
Chemtrec: 800-424-9300
Product Code: 005025
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Propylene Glycol Methyl Ether	5-20%	107-98-2	9.5	100ppm	100ppm	6052	12000	n.av.	1.6
Diacetone Alcohol	5-20%	123-42-2	0.9	50ppm	50ppm	4000	13500	n.av.	1.8
PM Acetate	35-50%	108-65-6	3.8	n.av.	n.av.	8532	5000	n.av.	1.5
Butyl Acetate	20-35%	123-86-4	8.0	150ppm	150ppm	1400	n.av.	2000	1.7
Aromatic Naphtha Heavy	5-20%	64742-94-5	1.0	50ppm	500ppm	n.av.	n.av.	n.av.	1.0
2-Butoxyethyl Acetate(SARA 313)	16.1%	112-07-2	0.5	n.av.	n.av.	2400	1500	n.av.	0.8

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 248-380F
Weight per Gallon: 7.7
Percent Volatile by Volume: 100
Volatile Organic Compounds: 7.7 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 78F
Lower Explosive Limit: 0.8
NFPA Flammability: I C
Extinguishing media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Strong alkalis.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Strong alkalis.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and smoke.

Section VI - Toxicological Properties

Threshold Limit Value: See Section II
Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
Routes of entry: Skin contact or absorption, eye contact, inhalation, ingestion.
Effects of Overexposure: To vapor, spray mist, liquid.
Acute: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation; severe irritation, redness, and tearing of the eyes, blurred vision sensation of seeing halos around lights; extraction of natural oils with resultant dry skin, irritation, and dermatitis; gastrointestinal irritation, nausea, vomiting and diarrhea, corrosive to skin and eyes.
Chronic: Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in an anemic condition.
Cancer Risks: No ingredients in these products are known to NTP, IARC or OSHA to be carcinogenic.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Refer to protective measures listed in Sections IV, V, VI, VIII, or IX. Remove all sources of ignition. Avoid breathing vapors, ventilate area, remove with inert absorbent using non-sparking tools.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. Rags, filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated products are hazardous before disposal and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved airline respirator or hood. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation. Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum. Items such as rags, filters, paint suits, etc., may be hazardous waste and if so must be disposed of as cited in Section VII.

Section VIII - First Aid Measures

Emergency and First Aid Procedures: Inhalation - move to fresh air, give artificial respiration if necessary; skin contact - wash with soap and water, not solvent; Eye contact - flush with water for at least 15 minutes, consult a physician; Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: none expected

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Department, April 1993.

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

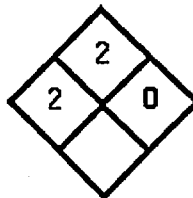
American Conference of Governmental Industrial Hygienists, *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1992.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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SECTION I

MANUFACTURERS NAME:
AKZO COATINGS INC.

STREET ADDRESS:
1845 MAXWELL
TROY, MI 48064

EMERGENCY TELEPHONE NUMBERS:
8:00AM-4:45PM (313) 637-0400
AFTER HOURS (313) 855-7313

PRODUCT CLASS:

MANUFACTURERS CODE IDENTIFICATION:
10AHY43204

TRADE NAME:
REDUCER TR-10

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS:	C.A.S. NO.	* PCT *	* TLV-TWA *		* PEL-TWA *		* VAPOR
			PPM	MG/M3	PPM	MG/M3	
		* BY WT *					* PRESS
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	64742-94-5	* 5-20*	* 50.00	245.00*	500.00	2000.00*	(5.0
AROMATIC 150		* *					*
BUTYL ACETATE	123-86-4	* 20-35*	* 150.00	713.00*	150.00	710.00*	8.0
ESTER SOLVENT		* *					*
BUTOXYETHYL ACETATE	112-07-2	* 15-30*	* -----	-----*	-----	-----*	.3
BUTYL CELLOSOLVE ACETATE		* *					*
DIACETONE ALCOHOL	123-42-2	* 5-20*	* 50.00	238.00*	50.00	240.00*	.8
KETONE SOLVENT		* *					*
PROPYLENE GLYCOL METHYL ETHER	107-98-2	* 5-20*	* 100.00	369.00*	100.00	360.00*	12.5
GLYCOL ETHER PM		* *					*
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	* 35-50*	* -----	-----*	-----	-----*	3.8
PM ACETATE		* *					*

SECTION III - PHYSICAL DATA

BOILING RANGE:
248 - 380 DEG. F

VAPOR DENSITY VS. AIR:
HEAVIER THAN AIR

EVAPORATION RATE VS. ETHER:
SLOWER

PERCENT VOLATILE BY VOLUME:
100.0

WEIGHT PER GALLON:
7.73 LBS.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY:

PAINT RELATED MATERIAL,
FLAMMABLE LIQUID, NA-1263

FLASH POINT:

78F

LEL: .8

OSHA CLASSIFICATION:

FLAMMABLE LIQUID - CLASS IC

EXTINGUISHING MEDIA:

FOAM, CARBON DIOXIDE, DRY CHEMICALS

UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS. DURING EMERGENCY CONDITIONS OVER EXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:

WATER MAY BE INEFFECTIVE. WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE. FIRE FIGHTING PERSONNEL SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA

ABILITY:

STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):

NONE REASONABLY FORESEEABLE.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, SMOKE, OXIDES OF NITROGEN.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE

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SECTION VI - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: MOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY.

SKIN CONTACT: WASH WITH SOAP & WATER.

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, CONSULT A PHYSICIAN.

INGESTION: DRINK ONE OR TWO GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING.

CONSULT PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. TREAT SYMPTOMATICALLY.

MEDICAL CONDITIONS PRONE TO AGGRAVATION: NONE EXPECTED

THE FOLLOWING HAZARDS HAVE BEEN REPORTED TO BE ASSOCIATED WITH THE INDIVIDUAL COMPONENTS OF THIS PRODUCT. THESE HAZARDS MAY NOT ALL BE ASSOCIATED WITH THE FINISHED PRODUCT.

ACUTE:

EXCESSIVE VAPOR CONCENTRATION IN AIR, ESPECIALLY IN CONFINED SPACES, MAY CAUSE ASPHYXIATION.

EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL, THROAT AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE AND POSSIBLE UNCONSCIOUSNESS.

EYE CONTACT CAUSES IRRITATION, REDNESS, TEARING, BLURRED VISION, AND A SENSATION OF SEEING HALOS AROUND LIGHTS.

EYE CONTACT MAY CAUSE IRRITATION.

EYE CONTACT WITH LIQUID OR VAPOR CAUSES SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION, AND A SENSATION OF SEEING HALOS AROUND LIGHTS.

PROLONGED SKIN CONTACT MAY LEAD TO EXTRACTION OF NATURAL OILS WITH RESULTANT DRY SKIN, CRACKING, IRRITATION AND DERMATITIS.

PROLONGED SKIN CONTACT MAY LEAD TO EXTRACTION OF NATURAL OILS WITH RESULTANT DRY SKIN, CRACKING, IRRITATION, DERMATITIS AND MAY ALSO BE ABSORBED THROUGH THE SKIN.

SWALLOWING MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

NOTICE: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

CHRONIC:

HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS AND VAPORS SHOULD BE MINIMIZED.

PROLONGED OR CONTINUOUS INHALATION OF VAPORS MAY RESULT IN DELAYED LUNG DAMAGE.

ANIMAL STUDIES HAVE SHOWN THAT REPEATED EXPOSURE TO VAPORS CAN CAUSE BLOOD CELL AND KIDNEY DAMAGE.

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SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REFER TO PROTECTIVE MEASURES LISTED IN SECTIONS IV., V., VI., VIII. AND IX.

REMOVE ALL SOURCES OF IGNITION. AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE WITH INERT ABSORBENT.

WASTE DISPOSAL METHOD:

INCINERATE IN AN APPROVED FACILITY, DO NOT INCINERATE CLOSED CONTAINERS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL POLLUTION CONTROL REQUIREMENTS.

SECTION VIII - SAFE HANDLING & USE INFORMATION

RESPIRATORY PROTECTION:

ADEQUATE VENTILATION IS REQUIRED. USE NIOSH/MSHA APPROVED RESPIRATOR DEVICE.

SEE YOUR SAFETY EQUIPMENT SUPPLIER FOR EVALUATION AND RECOMMENDATION.

IN CONFINED AREAS USE NIOSH/MSHA APPROVED AIRLINE RESPIRATOR OR HOOD.

VENTILATION:

PROVIDE SUFFICIENT VENTILATION TO KEEP VAPOR CONCENTRATION BELOW THE GIVEN TLV AND LEL. FOR BAKING FINISHES, EXHAUST VAPORS EMITTED ON HEATING. REMOVE DECOMPOSITION PRODUCTS FORMED DURING WELDING OR FLAME CUTTING OF SURFACES COATED WITH THIS PRODUCT.

PROTECTIVE GLOVES:

REQUIRED FOR PROLONGED OR REPEATED CONTACT. REFER TO SAFETY EQUIPMENT SUPPLIER FOR EFFECTIVE GLOVE RECOMMENDATIONS.

EYE PROTECTION:

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:

EYE BATH AND SHOWER SHOULD BE AVAILABLE. USE CHEMICAL RESISTANT APRON, BOOTS OR OTHER CLOTHING IF NEEDED TO AVOID REPEATED OR FREQUENT SKIN CONTACT. LIQUID MAY PENETRATE SHOES AND LEATHER CAUSING DELAYED IRRITATION.

HYGIENIC PRACTICES:

WASH HANDS BEFORE EATING, SMOKING OR USING WASHROOM

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE CONTAINERS OUT OF SUN AND AWAY FROM HEAT, SPARKS AND OPEN FLAMES. CLOSE CONTAINERS AFTER EACH USE. CONSULT M.F.P.A. CODE FOR ADDITIONAL STORAGE REQUIREMENTS.

OTHER PRECAUTIONS:

DO NOT TAKE INTERNALLY. USE APPROVED BOMBING AND GROUNDING PROCEDURES. OBSERVE LABEL PRECAUTIONS. KEEP CLOSURES TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. NEVER USE PRESSURE TO EMPTY - DRUM IS NOT A PRESSURE VESSEL. AVOID BREATHING SANDING DUST. DO NOT WELD OR FLAME CUT AN EMPTY DRUM. DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

APPROVED BY RAW MATERIAL & FORMULA INFORMATION DEPARTMENT

DATE: 5/07/90

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SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT, 10AHY43204 , CONTAINS THE FOLLOWING TOXIC CHEMICALS
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE SUPERFUND
AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372.

CAS # CHEMICAL NAME

X BY WEIGHT

THIS INFORMATION MUST REMAIN ATTACHED TO THE PRODUCT MSDS AND MUST BE
INCLUDED AND DISTRIBUTED WITH ANY COPY OF THE MSDS.

Copies to

Subject

Date

From

To

Memorandum



MATERIAL SAFETY DATA SHEET

Modified Rail Black

12-30-912-6

Date of Preparation: April, 1994

Section I - Product Information

Manufacturer: Akzo Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Alkyd Paint

Packing Group: III

Product Code: 2083

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal	LEL
Xylene (SARA 313)	50.1%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Carbon Black	1-5%	1333-86-4	n. ap.	3.5mg/m ³	3.5mg/m ³	n. av.	n. av.	n. av.	n.ap
Ethyl-3-Ethoxypropionate	1-5%	763-69-9	1.1	n. av.	n. av.	5000	18880	1000	n.ap
Ethylbenzene(SARA313)	6.7%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
Butyl Acetate	5-20%	123-86-4	8.0	150ppm	150ppm	1400	n.av.	2000	1.7

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 260-329F
Weight per Gallon: 7.9
Percent Volatile by Volume: 71%
Volatile Organic Compounds: 4.2 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 45F
Lower Explosive Limit: 1.0
NFPA FLammability: I B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Oxidizers, alkali metals, hydrogen fluoride, nitric acid, sodium hydroxide.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, open flame, sparks.
Hazardous Combustion Products: Oxides of carbon and nitrogen, various hydrocarbons, fumes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.
For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects:
Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation.

In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. **Ventilation:** Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Department.

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

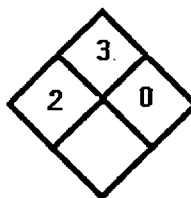
American Conference of Governmental Industrial Hygienists, 1992-1993 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1992.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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MATERIAL SAFETY DATA SHEET

FLNA4006M

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Code: FLNA4006

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Packing Group: III
Transport Class: UN1263

Shipping Name: Paint
Product Class: Acrylic Paint

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal	LEL
Xylene (SARA 313)	11.3%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Butyl Acetate	6.1%	123-86-4	8.0	150ppm	150ppm	1400	n.av.	2000	1.7
Isobutyl Acetate	4.2%	110-19-0	12.5	150ppm	150ppm	5200	17400	3500	2.4
Aromatic Naphtha 100	8.6%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
Aromatic Naphtha 150	3.0%	64742-94-5	5.0	50ppm	500ppm	n.av.	n.av.	n.av.	1.0
Amorphous Silica	3.4%	112926-00-8	n.ap	10mg/m ³	6mg/m ³	3160	n.av.	n.av.	n.ap
Dipentene	1.1%	138-86-3	1.3	n.av.	n.av.	5000	n.av.	n.av.	0.7
Titanium Dioxide	30.7%	13463-67-7	n.ap	10mg/m ³	10mg/m ³	n.av.	n.av.	n.av.	n.ap

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 177-380F
Weight per Gallon: 10.8
Percent Volatile by Volume: 53%
Volatile Organic Compounds: 4.0

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 72F
Lower Explosive Limit: 0.7
NFPA Flammability: 1 B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Oxidizers, alkali metals, hydrogen fluoride, nitric acid, sodium hydroxide.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, open flame, sparks.
Hazardous Combustion Products: Oxides of carbon and nitrogen, various hydrocarbons, fumes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients of this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Department.

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

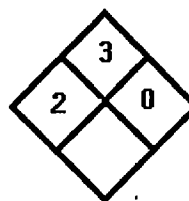
American Conference of Governmental Industrial Hygienists, *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1992.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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NFPA 704



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respirator. This product is designed to be mixed with isocyanate containing hardeners. Use a positive pressure air supply respirator. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders.

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MATERIAL SAFETY DATA SHEET

Autocryl 1.2.3 Hardener

Date of Preparation: February 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Isocyanate Hardener
Packing Group: III

Product Code: 4052

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene(SARA313)	20.1%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
PropyleneGlycolMetEtherAcetate	6.2%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5
N-butyl Acetate	32.8%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Aliphatic Polyisocyanate Resin	36.9%	28182-81-2	n. ap.	0.5mg/m ³	n. av.	n. av.	n. av.	n. av.	n.ap
Ethylbenzene(SARA313)	3.4%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
HMDI Monomer (SARA313)	0.6%	822-06-6	n. ap.	.005mg/m ³	n. av.	710	570	n. av.	n.ap

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Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Weight per Gallon: 8.1
Boiling Range: 168-420F
Percent Volatile by Volume: 68
Volatile Organic Compounds: 5.0 pounds/gallon or 600 grams/liter

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 81F
Lower Explosive Limit: 1.0
NFPA Flammability: I C
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.
Hazardous Polymerization: May occur.
Conditions to Avoid: Open flame, heat, sparks, moisture.
Hazardous Decomposition Products: Oxides of carbon and nitrogen, various hydrocarbons, hydrogen cyanide, hexamethylene diisocyanate (HDI).

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. This product contains isocyanates. Use a positive pressure air supply respirator. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for

airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Isocyanate sensitization, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

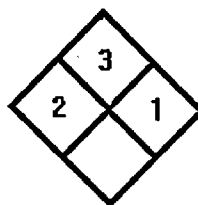
American Conference of Governmental Industrial Hygienists, 1993-1994 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

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NFPA 704



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MATERIAL SAFETY DATA SHEET

1.2.3 Slow Reducer

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Solvent Blend
Packing Group: III

Product Code: 5091

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
PropyleneGlycolMethylEtherAcetate	30.0%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5
Propylene Glycol Methyl Ether	17.0%	107-98-2	12.5	100ppm	100ppm	6052	12000	n. av.	1.6
Aromatic Naphtha 100	7.6%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
2-butoxy Ethyl Acetate(SARA313)	5.0%	112-07-2	0.5	n. av.	n. av.	2400	1500	n. av.	0.8
N-butyl Acetate	37.0%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Diacetone Alcohol	3.4%	123-42-2	0.9	50ppm	50ppm	4000	13500	n. av.	1.8

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 248-367F
Weight per Gallon: 7.6
Percent Volatile by Volume: 100
Volatile Organic Compounds: 7.6 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 83F
Lower Explosive Limit: 0.8
NFPA Flammability: 1 C
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures, flame, sparks.
Hazardous Decomposition Products: Oxides of carbon, toxic fumes, various hydrocarbons.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In

cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

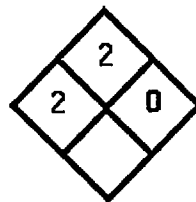
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MATERIAL SAFETY DATA SHEET

1.2.3 Extra Slow Reducer

Date of Preparation: January, 1995

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Solvent Blend

Packing Group: III

Section I - Product Information

Product Code: 5097

Emergency Telephone:

Chemtrec: 800-424-9300

Poisindex: 303-832-3332

Transport Class: UN1263

Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Propylene Glycol Methyl Ether Acetate	34.0%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5
Propylene Glycol Methyl Ether	15.0%	107-98-2	12.5	100ppm	100ppm	6052	12000	n. av.	1.6
Aromatic Solvent	6.9%	000	n. av.	100ppm	n. av.	n. av.	n. av.	n. av.	n. av.
2-butoxy Ethyl Acetate (SARA 313)	10.3%	112-07-2	0.5	n. av.	n. av.	2400	1500	n. av.	0.8
N-butyl Acetate	27.0%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Diacetone Alcohol	6.0%	123-42-2	0.9	50ppm	50ppm	4000	13500	n. av.	1.8

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether

Vapor Pressure: Heavier than air

Boiling Range: 262-366F (128-186C)

Weight per Gallon (specific gravity): 7.7 (0.92)

Percent Volatile by Volume: 100

Volatile Organic Compounds: 7.7 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 91F

Lower Explosive Limit: 0.8

NFPA Flammability: 1 C

Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable under non-emergency conditions.

Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, amines, nitric acid, sodium hydroxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: High temperatures, flame, sparks.

Hazardous Decomposition Products: Oxides of carbon, aldehydes, fumes, various hydrocarbons.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.

For further information, see Section II - Hazardous Ingredients

Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.

Exposure Effects: Acute and Chronic

Inhalation: (Acute) Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. (Chronic) Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

Skin contact: (Acute) Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. (Chronic) Skin sensitization may occur.

Eye contact: (Acute) Irritation, redness, pain, blurred vision, sensation of seeing halos around lights. (Chronic) Eye damage.

Ingestion: (Acute) Gastrointestinal irritation, nausea, vomiting and diarrhea. (Chronic) Kidney damage, blood system damage.

Other Health Effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled:

Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied

respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

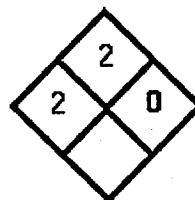
American Conference of Governmental Industrial Hygienists, 1993-1994 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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MATERIAL SAFETY DATA SHEET

1.2.3 Retarder

Date of Preparation: January, 1995

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Solvent Blend
Packing Group: III

Section I - Product Information

Emergency Telephone:
Chemtrec: 800-424-9300
Product Code: 5028
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Diacetone Alcohol	5.0%	123-42-2	0.9	50ppm	50ppm	4000	13500	n.av.	1.8
PM Acetate	40.0%	108-65-6	3.8	n.av.	n.av.	8532	5000	n.av.	1.5
Butyl Acetate	20.0%	123-86-4	8.0	150ppm	150ppm	1400	n.av.	2000	1.7
Aromatic Naphtha Heavy	7.6%	64742-94-5	1.0	50ppm	500ppm	n.av.	n.av.	n.av.	1.0
2-Butoxyethyl Acetate(SARA 313)	27.4%	112-07-2	0.5	n.av.	n.av.	2400	1500	n.av.	0.8

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 260-380F
Weight per Gallon: 7.8
Percent Volatile by Volume: 100
Volatile Organic Compounds: 7.8 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 105F
Lower Explosive Limit: 0.8
NFPA Flammability: I C
Extinguishing media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Strong alkalis.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Strong alkalis.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, and smoke.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.
For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects:
Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled:
Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In

cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove - decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary; skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

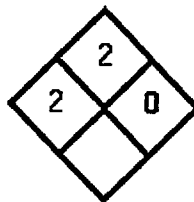
American Conference of Governmental Industrial Hygienists, 1993-1994 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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NFPA 704



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Print Key Output

5763SS1 V3ROM5 940604

S1036680

Page 1
08/23/95 15:16:25

Display Device : LWSM01
User : INDENG1

*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+...

01 *	BOM300	Bill of Materials Inquiry	8/23/95	
02 *		Indented	15:16:19	
03 *	Parent 12309001	PRIMER RED OXIDE, SPRAYABLE	On Ord.-	.00
04 *	Formula/Drawing Number		On Hand-	.00
05 *	Revision: 1	Cls AA Lead Time	Quantity	Date Date
06 *	Level Component		Required	Effec. Disc.
07 *	1 12309233	PAINT REF. PRIME RED OXIDE		110791 999999
08 *	1 12309076 ✓	PRIMER, RED OXIDE #1006 S-15-84	.55000	110791 999999
09 *	1 12309134 ✓	HARDNER #C25/41	.28000	110791 999999

6.16 VOC

23 * ROLL CMD/1-Exit CMD/2-Prior CMD/3-Fold CMD/4-All/Effective CMD/5-Restart

*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8

12-30-907-6

MATERIAL SAFETY DATA SHEET

Washprimer S15/84 Red

Date of Preparation: May, 1994

Manufacturer: Akzo Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Code: 1006

Section I - Product Information

Shipping Name: Paint
Transport Class: UN1263
Packing Group: III

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Product Class: Primers/Fillers

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene (SARA 313)	2.8%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Talc	6.3%	14807-96-6	n.ap	2mg/m ³	2mg/m ³	n.av.	n.av.	n.av.	n.ap
Methyl Isobutyl Ketone(SARA 313)	30.7%	108-10-1	16.0	50ppm	50ppm	1600	n.av.	2000	1.2
Ethanol	15.9%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
Isopropanol	13.5%	67-63-0	32.4	400ppm	400ppm	5840	13000	12000	2.0
N-Butanol(SARA 313)	1.7%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Zinc Chromate(SARA 313)(P65)	2.1%	13530-65-9	n.ap	.01mg/m ³	.01mg/m ³	n.av.	n.av.	n.av.	n.ap
Lead Titanate(SARA 313)(P65)	1.6%	12060-00-3	n.ap	.15mg/m ³	.05mg/m ³	n.av.	n.av.	n.av.	n.ap
Strontium Chromate(SARA 313)(P65)	1.9%	7789-06-2	n.ap	.0005mg/m ³	.5mg/m ³	3118	n.av.	n.av.	n.ap

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Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 171-284F
Weight per Gallon: 8.4
Percent Volatile by Volume: 83
Volatile Organic Compounds: 5.3 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 54F
NFPA Flammability: I B
Lower Explosion Limit: 1.0
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalis, acids, oxidizers, water, alkali metals, halogenated solvents, nitric acid, halogen compounds, sodium hydroxide, hydrogen peroxide.
Hazardous Polymerization: May occur.
Conditions to Avoid: High temperatures, flame, sparks high humidity, moisture.
Hazardous Decomposition Products: Oxides of carbon and nitrogen, fumes, various hydrocarbons, toxic fumes, aldehydes, butyraldehyde, acroleins, crotonal, formaldehyde, acids, butyric acid, hydrogen gas.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: Hexavalent chromium from chromate compounds is listed by ACGIH as a confirmed human carcinogen (A1), NTP as a known carcinogen and IARC as being carcinogenic to humans (group 1). Lead from lead compounds is listed by ACGIH as a suspected human carcinogen (A2), and by IARC as possibly being carcinogenic to humans (group 1).
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc.,

contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. This primer contains lead. Use NIOSH/MSHA approved respirator with HEPA Dust Cartridges for concentrations below $0.05\text{mg}/\text{m}^3$ as Pb. For concentrations above $0.05\text{mg}/\text{m}^3$ as Pb, use air supplied respirator. See OSHA Standard 29 CFR Section 1910.1025. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders, neurological disorders.

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Department.

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

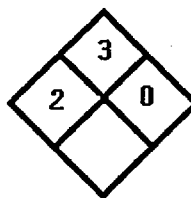
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NFPA 704



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MATERIAL SAFETY DATA SHEET

C25/41

12309184

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Acid Solution
Transport Class: UN1263

Shipping Name: Paint Related Material

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Product Code: 4022
Packing Group: II

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
N-butyl Alcohol(SARA313)	14.7%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Phosphoric Acid (SARA 313)	4.3%	7664-38-2	n.ap	1mg/m ³	1mg/m ³	1530	2740	n.av.	n.ap
N-butyl Acetate	15.6%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Ethyl Alcohol	12.7%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
Ethylbenzene(SARA313)	3.7%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
Methyl Isobutyl Ketone(SARA313)	15.9%	108-10-1	16.0	50ppm	50ppm	1600	n. av.	2000	1.2
Toluene(SARA313)(P65)	14.7%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Xylene(SARA313)	15.9%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5

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Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 171-284F
Weight per Gallon: 7.2
Percent Volatile by Volume: 98
Volatile Organic Compounds: 6.8 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 45F
Lower Explosive Limit: 1.0
NFPA Flammability: I B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalies, acids, oxidizers, water, alkali metals, halogenated solvents.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, flame, sparks.
Hazardous Decomposition Products: Oxides of carbon, toxic fumes, various hydrocarbons, oxides of phosphorous.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
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Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

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Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

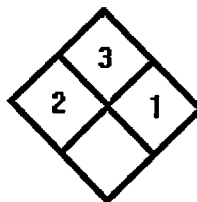
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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Print Key Output

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04 *	Formula/Drawing Number		On Hand-	.00
05 *	Revision: 1	Cls GB Lead Time	Quantity	Date Date
06 *	Level Component		Required	Effec. Disc.
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08 *	1 12309613 ✓	TOP COAT,CHROMATIC BLACK #2085	.64000	020794 999999
09 *	1 12309142 ✓	HARDNER #4052-1.2.3.	.16000	020794 999999

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ROLL CMD/1-Exit CMD/2-Prior CMD/3-Fold CMD/4-All/Effective CMD/5-Restart

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MATERIAL SAFETY DATA SHEET

Meta-Flex Plus Black

12-30-961-3

Date of Preparation: April, 1994

Section I - Product Information

Manufacturer: Akzo Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Class: Alkyd Coating
Packing Group: III

Shipping Name: Paint

Emergency Telephone:
Chemtrec: 800-424-9300
Product Codes: 2085
Transport Class: UN1263
Poindex: 303-832-3332

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene(SARA313)	47.5%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Carbon Black	2.5%	1333-86-4	n. ap.	3.5mg/m ³	3.5mg/m ³	n. av.	n. av.	n. av.	n.ap
Aromatic Naphtha 100	2.2%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
PropyleneGlycolMethylEtherAcetate	2.2%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 208-384F
Weight per Gallon: 8.0
Percent Volatile by Volume: 59
Volatile Organic Compounds: 4.3 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 78F
Lower Explosive Limit: 0.9
NFPA Flammability: I C
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Acids, oxidizers, amines, aldehydes, halogenated solvents, nitric acid, halogen compounds, hydrogen fluoride, phosphorous compounds, alkylene oxides, ammonia.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, flame, sparks.
Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients of these products is known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved airline respirator or hood. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation. In

cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary disorders.

Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Department.

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

American Conference of Governmental Industrial Hygienists, *1992-1993 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1992.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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1230 9142

MATERIAL SAFETY DATA SHEET

Autocryl 1.2.3 Hardener

Date of Preparation: February 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.

5555 Spalding Drive

Norcross, GA 30092

Product Class: Isocyanate Hardener

Packing Group: III

Product Code: 4052

Emergency Telephone:

Chemtrec: 800-424-9300

Poisindex: 303-832-3332

Transport Class: UN1263

Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene(SARA313)	20.1%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
PropyleneGlycolMetEtherAcetate	6.2%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5
N-butyl Acetate	32.8%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Aliphatic Polyisocyanate Resin	36.9%	28182-81-2	n. ap.	0.5mg/m ³	n. av.	n. av.	n. av.	n. av.	n.ap
Ethylbenzene(SARA313)	3.4%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
HMDI Monomer (SARA313)	0.6%	822-06-6	n. ap.	.005mg/m ³	n. av.	710	570	n. av.	n.ap

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether

Vapor Pressure: Heavier than air

Weight per Gallon: 8.1

Boiling Range: 168-420F

Percent Volatile by Volume: 68

Volatile Organic Compounds: 5.0 pounds/gallon or 600 grams/liter

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 81F

Lower Explosive Limit: 1.0

NFPA Flammability: I C

Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.

Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.

Hazardous Polymerization: May occur.

Conditions to Avoid: Open flame, heat, sparks, moisture.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, various hydrocarbons, hydrogen cyanide, hexamethylene diisocyanate (HDI).

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.

For further information, see Section II - Hazardous Ingredients

Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.

Exposure Effects: Acute and Chronic

Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.

Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.

Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

Other Health Effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled:

Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. This product contains isocyanates. Use a positive pressure air supply respirator. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for

airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Isocyanate sensitization, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

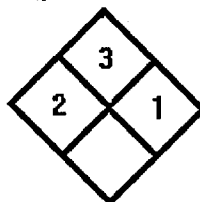
American Conference of Governmental Industrial Hygienists, 1993-1994 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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NFPA 704



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Print Key Output

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Display Device : LWSM01
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06 *	Level Component	Required	Effec. Disc.
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MATERIAL SAFETY DATA SHEET

Autocoat LV Epoxy

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Primers/Fillers

Shipping Name: Paint

Product Code: 1065

Emergency Telephone:
Chemtrec: 800-424-93
Poisindex: 303-832-3332
Packing Group: III
Transport Class: UN1263

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene (SARA 313)	2.0%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Talc	2.5%	14807-96-6	n.ap	2mg/m ³	2mg/m ³	n.av.	n.av.	n.av.	n.ap
Zinc Phosphate(SARA 313)	24.4%	7790-90-0	n.ap	n.av.	n.av.	n.av.	n.av.	n.av.	n.ap
2-Butoxyethyl Acetate(SARA 313)	1.5%	112-07-2	0.5	n.av.	n.av.	2400	1500	n.av.	0.8
Titanium Dioxide	9.8%	13463-67-7	n.ap	10mg/m ³	10mg/m ³	n.av.	n.av.	n.av.	n.ap
Methyl Ethyl Ketone (SARA 313)	4.8%	78-93-3	77.5	200ppm	200ppm	2737	13000	9610	1.1
Stoddard Solvent	2.7%	8052-41-3	2.0	100ppm	100ppm	n.av.	n.av.	n.av.	1.0
Calcium Silicate	22.4%	13983-17-0	n.ap	10mg/m ³	n.av.	n.av.	n.av.	n.av.	n.ap
Butyl Glycidyl Ether	4.2%	2426-08-6	n.ap	25ppm	50ppm	n.av.	n.av.	n.av.	n.ap
Acetic Acid Ester Oxo Alcohol	3.6%	90438-79-2	22.0	n.av.	n.av.	n.av.	n.av.	n.av.	1.0

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether

Vapor Pressure: Heavier than air

Boiling Range: 175-382F

Weight per Gallon: 14.3

Percent Volatile by Volume: 34

Volatile Organic Compounds (minus water): 2.28 pounds/gallon or 274 grams/liter. At standard mixing ratio 100:30:30 with LV Epoxy Hardener and LV Epoxy Reducer VOC is 3.42 pounds/gallon or 411 grams/liter.

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 16F

NFPA Flammability: 1 B

Lower Explosive Limit: 1.0

Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.

Incompatibility (materials to avoid): Alkalis, acids, oxidizers, water, alkali metals, halogenated solvents, nitric acid, halogen compounds, sodium hydroxide, hydrogen fluoride.

Hazardous Polymerization: May occur.

Conditions to Avoid: High temperatures, flame, sparks high humidity, moisture.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, fumes, various hydrocarbons, hydrogen gas.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.

For further information, see Section II - Hazardous Ingredients

Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.

Exposure Effects: Acute and Chronic

Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.

Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.

Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

Other Health Effects:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled:

Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc.,

contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department..

Phone: 404-662-8464

Reference sources used in addition to raw material supplier MSDS information:

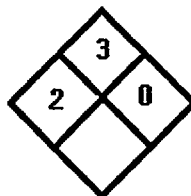
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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MATERIAL SAFETY DATA SHEET

Autocoat LV Hardener Epoxy

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Class: Non-Isocyanate Hardener
Packing Group: III

Product Code: 4095

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
Xylene(SARA313)	4.3%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Ethylbenzene(SARA313)	1.0%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
N-butyl Alcohol(SARA313)	43.4%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Polyamine	10.5%	000	n. ap.	n. av.	n. av.	n. av.	n. av.	n. av.	n. ap.

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Weight per Gallon: 7.5
Boiling Range: 243-284F
Percent Volatile by Volume: 54
Appearance and Odor: Clear liquid with organic solvent odor
Volatile Organic Compounds (minus water): 3.65 lbs./gallon or 438 grams/liter

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 55F
Lower Explosive Limit: 1.0
NFPA Flammability: 1 B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.
Hazardous Polymerization: May occur.
Conditions to Avoid: Open flame, heat, sparks, moisture.
Hazardous Decomposition Products: Oxides of carbon and nitrogen, various hydrocarbons, hydrogen cyanide.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH, or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been

carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.
Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Isocyanate sensitization, skin disorders, pulmonary disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

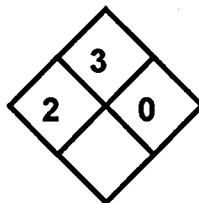
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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NFPA 704



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MATERIAL SAFETY DATA SHEETS**Autocoat LV Epoxy Reducer**

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Transport Class: UN1263
Product Class: Solvent Blend
Shipping Name: Paint Related Material

Emergency Telephone:
Chemtrec: (800) 424-9300
Poisindex: 303-8323332
Packing Group: II
Product Code: 6083

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LD ₅₀ Inhal
Aromatic Naphtha 100	5.2%	64742-95-6	3.0	50ppm	500ppm	4700	n.av.	3670
Methyl Ethyl Ketone (SARA 313)	35.9%	78-93-3	70.0	200ppm	200ppm	2737	13000	9610
Methyl Isobutyl Ketone (SARA 313)	22.8%	108-10-1	16.0	50ppm	50ppm	1600	n.av.	2000
Butyl Acetate	23.6%	123-86-4	8.0	150ppm	150ppm	14000	n.av.	2000
2-Butoxyethyl Acetate (SARA 313)	12.6%	112-07-2	0.3	n.av.	n.av.	2400	1500	n.av.

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 175-367F
Weight per Gallon: 7.0
Percent Volatile by Volume: 100
Volatile Organic Compounds (minus water): 7.00 pounds/gallon or 840 grams/liter

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 16F
Lower Explosive Limit: 0.8
NFPA Flammability: 1 B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V - Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalies, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures, flame, sparks.
Hazardous Decomposition Products: Oxides of carbon, toxic fumes, various hydrocarbons.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.
For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste.

Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

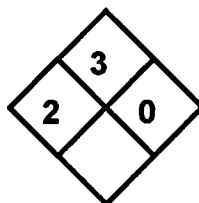
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Print Key Output
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Page 1
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09 * 1	12309183 ✓	TOP COAT, RED ENAMEL #2292	.64000	092393 999999

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5.3

ROLL CMD/1-Exit CMD/2-Prior CMD/3-Fold CMD/4-All/Effective CMD/5-Restart

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MATERIAL SAFETY DATA SHEET

Metaflex Red Enamel

1230 918 3

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Class: Alkyd Paint
Packing Group: III

Product Code: 2292

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint

Section II - Hazardous Ingredients

Hazardous Ingredient	Percent weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal	LEL
Xylene (SARA 313)	33.8%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Ethylbenzene(SARA313)	8.4%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
Diacetone Alcohol	1.9%	123-42-2	0.9	50ppm	50ppm	4000	13500	n. av.	1.8
PropyleneGlycolMethylEtherAcetate	2.4%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5

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Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 260-329F
Weight per Gallon: 8.0
Percent Volatile by Volume: 70%
Volatile Organic Compounds: 4.3 lbs/gal

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 45F
Lower Explosive Limit: 1.0
NFPA FLammability: I B
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable
Incompatibility (materials to avoid): Oxidizers, alkali metals, hydrogen fluoride, nitric acid, sodium hydroxide.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, open flame, sparks.
Hazardous Combustion Products: Oxides of carbon and nitrogen, various hydrocarbons, fumes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. In confined areas use NIOSH/MSHA approved air supplied respirator. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for airborne contaminants has

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

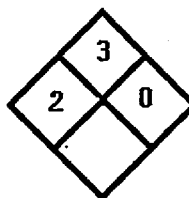
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been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders

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Page 1
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09 *	1 12309696 ✓	HARDNER LV TOPCOAT #4099	.28000	060994 999999
10 *	1 12309704 ✓	LV TOPCOAT REDUCER #5052	.17000	060994 999999

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1230 982 9

MATERIAL SAFETY DATA SHEET**FLNA4006LV**

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Acrylic Coating

Transport Code: UN1263

Emergency Telephone:
Chemtrec: (800) 424-9300
Poisindex: 303-832-3332
Product Code: 5125
Shipping Name: Paint

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LD ₅₀ Inhal
Aromatic Naphtha 150	2.2%	64742-94-5	5.0	50ppm	500ppm	n.av.	n.av.	n.av.
Butyl Acetate	11.6%	123-86-4	8.0	150ppm	150ppm	14000	n.av.	2000
Ethyl Amyl Ketone	2.5%	541-85-5	<1.0	25ppm	25ppm	3500	n.av.	n.av.
Methyl Amyl Ketone	2.5%	110-43-0	2.1	50ppm	100ppm	1600	10000	2000
Titanium Dioxide	44.1%	13463-67-7	NA	10mg/m ³	10mg/m ³	n.av.	n.av.	n.av.
Amorphous Silica	4.8%	112926-00-8	NA	10mg/m ³	6mg/m ³	3160	n.av.	n.av.
V M & P Naphtha	2.2%	8032-32-4	38.0	300ppm	300ppm	n.av.	n.av.	1600
Xylene (SARA 313)	1.4%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether

Vapor Pressure: Heavier than air

Boiling Range: 200-380F (93-193C)

Percent Volatile by Volume: 41%

Weight per Gallon: 12.8

Volatile Organic Compounds: 2.95 pounds per gallon.

When mixed as per instruction VOC of ready-to-spray product is 3.4 pounds per gallon.

Section - IV - Fire and Explosion Hazard Data

Flash Point (SFCC): 79F (26C)

Lower Explosive Limit: 0.9

NFPA Class: I C

Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section - V- Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): Oxidizers, alkali metals, hydrogen fluoride, nitric acid, sodium hydroxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, open flame, sparks.

Hazardous Combustion Products: Oxides of carbon and nitrogen, various hydrocarbons, fumes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients

Cancer Risks: No ingredients used in these products are known to IARC, NTP, ACGIH or OSHA to be carcinogenic

Exposure Effects: Acute and Chronic

Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.

Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.

Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. This product is designed to be mixed with isocyanate containing hardeners. Use a positive pressure air supply respirator. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing:

Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

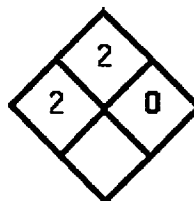
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



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MATERIAL SAFETY DATA SHEET

Autocoat LV Hardener Slow

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092
Product Class: Isocyanate Hardener
Packing Group: III

Product Code: 4099

Emergency Telephone:
Chemtrec: 800-424-9300
Poisindex: 303-832-3332
Transport Class: UN1263
Shipping Name: Paint Related Material

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LC ₅₀ Inhal.	LEL
N-butyl Acetate	3.9%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7
Aliphatic Polyisocyanate Resin	69.1%	28182-81-2	n. ap.	0.5mg/m ³	n. av.	n. av.	n. av.	n. av.	n. ap
HMDI Monomer (SARA313)	<0.2%	822-06-6	n. ap.	.005mg/m ³	na	710	570	n. av.	n. ap
Aromatic Naphtha 100	3.9%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
Ethyl Amyl Ketone	7.7%	541-85-5	2.1	25ppm	25ppm	3500	n. av.	n. av.	n. ap
Methyl Amyl Ketone	15.3%	110-43-0	2.1	50ppm	100ppm	1600	10000	2000	1.1

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Weight per Gallon: 8.6
Boiling Range: 260-344F
Percent Volatile by Volume: 38.4
Volatile Organic Compounds (minus water): 2.65 pounds/gallon or 318 grams/liter

Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 99F
Lower Explosive Limit: 0.9
NFPA Flammability: I C
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section V- Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.
Hazardous Polymerization: May occur.
Conditions to Avoid: Open flame, heat, sparks, moisture.
Hazardous Decomposition Products: Oxides of carbon and nitrogen, various hydrocarbons, hydrogen cyanide, hexamethylene diisocyanate (HDI).

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.
For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients in this product are known to NTP, IARC, ACGIH or OSHA to be carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.
Respiratory Protection: Adequate ventilation is required. This product contains isocyanates. Use a positive pressure air supply respirator. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for

airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Isocyanate sensitization, skin disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

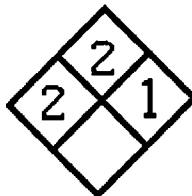
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

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NFPA 704



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MATERIAL SAFETY DATA SHEETS**Autocoat LV Reducer**

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Solvent Blend

Shipping Name: Paint Related Material

Transport Class: UN1263

Emergency Telephone:
Chemtrec: (800) 424-9300
Poisindex: 303-832-3332
Product Code: 5052
Packing Group: III

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LD ₅₀ Inhal
Ethyl Amyl Ketone	50.0%	541-85-5	2.1	25ppm	25ppm	3500	n.av.	n.av.
Methyl Amyl Ketone	50.0%	110-43-0	2.1	50ppm	100ppm	1600	10000	2000

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether
Vapor Pressure: Heavier than air
Boiling Range: 300-324F (149-162C)
Percent Volatile by Volume: 100%
Weight per Gallon: 6.81 (specific gravity 0.82)
Volatile Organic Compounds (minus water): 6.81 pounds/gallon or 817 grams/liter.

Section - IV - Fire and Explosion Hazard Data

Flash Point (SFCC): 102F (39C)
Lower Explosive Limit: 1.1
NFPA Class: II
Extinguishing Media: Foam, carbon dioxide, dry chemicals.
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section - V - Reactivity Data

Stability: Stable under non-emergency conditions.
Incompatibility (materials to avoid): Oxidizers, alkali metals, aldehydes, nitric acid, sodium hydroxide.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Heat, flame, sparks.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, various hydrocarbons, toxic fumes, aldehydes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients
Cancer Risks: No ingredients are known to NTP, IARC, ACGIH or OSHA as being carcinogenic.
Exposure Effects: Acute and Chronic
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.
Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.
Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.
Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. This product is designed to be used with an isocyanate containing hardener. Use a positive pressure air supply respirator. See equipment supplier for recommendation. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing: Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Do not take internally. Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;
Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation:

Pulmonary conditions, skin disorders, eye disorders.

Section IX - Preparation Information

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

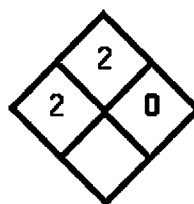
American Conference of Governmental Industrial Hygienists, 1993-1994 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

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MATERIAL SAFETY DATA SHEET**Autocoat LV MM 242**

Date of Preparation: January, 1995

Section I - Product Information

Manufacturer: Akzo Nobel Coatings Inc.
5555 Spalding Drive
Norcross, GA 30092

Product Class: Acrylic Coating

Transport Code: UN1263

Emergency Telephone:
Chemtrec: (800) 424-9300
Poisindex: 303-832-3332
Product Code: CO5242
Shipping Name: Paint

Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press	ACGIH TLV	OSHA PEL	LD ₅₀ Oral	LD ₅₀ Derm	LD ₅₀ Inhal
Aromatic Naphtha 150	7.0%	64742-94-5	5.0	50ppm	500ppm	n.av.	n.av.	n.av.
Butyl Acetate	9.9%	123-86-4	8.0	150ppm	150ppm	14000	n.av.	2000
Ethyl Amyl Ketone	1.4%	541-85-5	<1.0	25ppm	25ppm	3500	n.av.	n.av.
Methyl Amyl Ketone	1.4%	110-43-0	2.1	50ppm	100ppm	1600	10000	2000
Carbon Black	3.9%	1333-86-4	NA	3.5mg/m ³	3.5mg/m ³	n.av.	n.av.	n.av.
V M & P Naphtha	7.1%	8032-32-4	38.0	300ppm	300ppm	n.av.	n.av.	1600
Xylene (SARA 313)	1.6%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

Section III - Physical Data

Evaporation Rate: Slower than ether

Vapor Pressure: Heavier than air

Boiling Range: 200-380F (93-193C)

Percent Volatile by Volume: 42%

Weight per Gallon: 8.4

Volatile Organic Compounds: 2.64 pounds per gallon.

When mixed as per instructions VOC is 3.2 pounds per gallon.

Section - IV - Fire and Explosion Hazard Data

Flash Point (SFCC): 79F (26C)

Lower Explosive Limit: 0.9

NFPA Class: I C

Extinguishing Media: Foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

Section - V - Reactivity Data

Stability: Stable

Incompatibility (materials to avoid): Oxidizers, alkali metals, hydrogen fluoride, nitric acid, sodium hydroxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, open flame, sparks.

Hazardous Combustion Products: Oxides of carbon and nitrogen, various hydrocarbons, fumes.

Section VI - Toxicological Properties

Threshold Limit Value: None established for this product. For further information, see Section II - Hazardous Ingredients

Cancer Risks: No ingredients used in these products are known to IARC, NTP, ACGIH or OSHA to be carcinogenic

Exposure Effects: Acute and Chronic

Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

Skin contact: Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.

Eye contact: Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.

Ingestion: Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

Other Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII - Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste.

Determine whether contaminated items are hazardous and dispose of as appropriate.

Respiratory Protection: Adequate ventilation is required. This product is designed to be mixed with isocyanate containing hardeners. Use a positive pressure air supply respirator. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment. See safety equipment supplier for evaluation and recommendation.

Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

Protective Gloves: Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

Eye Protection: Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Other Protective Equipment: Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

Hygienic Practices: Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

Precautions To Be Taken In Handling And Storing:

Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

Other Precautions: Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Avoid breathing sanding dust. Do not weld or flame cut on empty drum.

Section VIII - First Aid Measures

Emergency and First Aid Procedures:

Inhalation - move to fresh air, give artificial respiration if necessary.

Skin contact - wash with soap and water, not solvent;

Eye contact - flush with water for at least 15 minutes, consult a physician;

Ingestion - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

Medical Conditions Prone to Aggravation: Pulmonary conditions, skin disorders.

Prepared by Akzo Nobel Coatings Car Refinish Manufacturing Operations Department.

Phone: 404-441-8628

Reference sources used in addition to raw material supplier MSDS information:

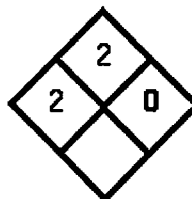
American Conference of Governmental Industrial Hygienists, *1993-1994 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1993.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Third Edition, Van Nostrand Reinhold, New York, 1993.

U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.

NFPA 704



While Akzo Nobel Coatings Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Akzo Nobel Coatings Inc. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Section IX - Preparation Information

8/29/95



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Sprayable VOC Worksheet for Hydrocat Mixing

Area 607 Epoxy Primer

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<u>LV Epoxy Primer</u>	<u>2.2</u>	<u>Dr</u>
Hardener	<u>LV Epoxy Hardener</u>	<u>3.6</u>	<u>gal</u>
Reducer	<u>LV Epoxy Reducer</u>	<u>7.0</u>	<u>gal</u>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<u>Epoxy Primer</u>	<u>36</u>	x	<u>2.2</u>	<u>79.2</u>
<u>Epoxy Reducer</u>	<u>16</u>	x	<u>7.0</u>	<u>112.0</u>
		x		
Totals	<u>52</u>			<u>191.2</u>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{191.2} / \underline{52} = \underline{3.68}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<u>Epoxy Primer</u>	<u>4.5</u>	x	<u>3.68</u>	<u>16.56</u>
<u>Epoxy Hardener</u>	<u>1</u>	x	<u>3.6</u>	<u>3.6</u>
	<u>5.5</u>			<u>20.16</u>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{20.16} / \underline{5.5} = \underline{3.66}$$

8/29/95



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Sprayable VOC Worksheet for Hydrocat Mixing

Area 607 Topcoat Black

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<u>Meta Flex Black</u>	<u>4.5</u>	<u>Dr (30 gal)</u>
Hardener	<u>123 Hardener</u>	<u>5.0</u>	<u>gal</u>
Reducer	<u>X-Slow Reducer</u>	<u>7.71</u>	<u>Dr (53 gal)</u>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<u>Meta Flex Black</u>	<u>30</u>	x	<u>4.5</u>	<u>135</u>
<u>X-Slow Reducer</u>	<u>9</u>	x	<u>7.71</u>	<u>69.36</u>
		x		
Totals	<u>39</u>			<u>204.39</u>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{204.39} / \underline{39} = \underline{5.24}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<u>Meta Flex Black</u>	<u>6.5</u>	x	<u>5.24</u>	<u>34.06</u>
<u>123 Hardener</u>	<u>1</u>	x	<u>5.0</u>	<u>5.0</u>
	<u>7.5</u>			<u>39.06</u>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{39.06} / \underline{7.5} = \underline{5.21}$$

8/29/95



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Sprayable VOC Worksheet for Hydrocat Mixing

Area 607 Topcoat Red

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<u>Red Enamel</u>	<u>4.5</u>	<u>Dr (30g)</u>
Hardener	<u>123 Hardener</u>	<u>5.0</u>	<u>gal</u>
Reducer	<u>TR 10 Reducer</u>	<u>7.73</u>	<u>Dr (53g)</u>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<u>Red Enamel</u>	<u>30</u>	x	<u>4.5</u>	<u>135</u>
<u>TR 10 Reducer</u>	<u>9</u>	x	<u>7.73</u>	<u>69.57</u>
		x		
Totals	<u>39</u>			<u>204.57</u>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{204.57} / \underline{39} = \underline{5.25}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<u>Red</u>	<u>6.5</u>	x	<u>5.25</u>	<u>34.13</u>
<u>123 Hardener</u>	<u>1</u>	x	<u>5</u>	<u>5</u>
	<u>7.5</u>			<u>39.13</u>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{39.13} / \underline{7.5} = \underline{5.22}$$

8/29/95

AKZO

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Sprayable VOC Worksheet for Hydrocat Mixing

Area 611 Platform Prime

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	515/84	5.56	30 gal Dr
Hardener	625/41	6.85	53 gal Dr
Reducer	X-Slow Reducer	7.71	53 gal Dr
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
515/84	30	x	5.56	166.8
X-Slow Reducer	9	x	7.71	69.39
		x		
Totals	39			236.19

Total VOC parts / Total parts = Pre Reduced VOC

$$\frac{236.19}{39} = 6.06$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
515/84	2.5	x	6.06	15.15
625/41	1	x	6.85	6.85
	3.5			22

Total VOC parts / Total parts = Sprayable VOC at gun

$$\frac{22}{3.5} = 6.29$$

8/30/95



Sprayable VOC Worksheet for Hydrocat Mixing

Area *611 Platform Topcoat Black*

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<i>Meta Flex Black</i>	<i>4.5</i>	<i>30 gal Dr</i>
Hardener	<i>123 Hardener</i>	<i>5.0</i>	<i>gal</i>
Reducer	<i>X-Slow Reducer</i>	<i>7.71</i>	<i>53 gal Dr</i>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<i>Meta Flex Black</i>	<i>30</i>	<i>x</i>	<i>4.5</i>	<i>135</i>
<i>X-Slow Reducer</i>	<i>9</i>	<i>x</i>	<i>7.71</i>	<i>69.4</i>
		<i>x</i>		
Totals	<i>39</i>			<i>204.4</i>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{204.4} / \underline{39} = \underline{5.24}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC -	Total
<i>Meta Flex Black</i>	<i>6.8</i>	<i>x</i>	<i>5.24</i>	<i>35.63</i>
<i>123 Hardener</i>	<i>1</i>	<i>x</i>	<i>5.0</i>	<i>5.0</i>
				<i>40.63</i>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{40.63} / \underline{7.8} = \underline{5.21}$$

8/29/95


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Sprayable VOC Worksheet for Hydrocat Mixing

 Area 608 + 609 Prime

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<u>LV Epoxy Prime</u>	<u>2.2</u>	<u>Dr. 36 gal</u>
Hardener	<u>LV Epoxy Hardener</u>	<u>3.6</u>	<u>gal</u>
Reducer	<u>LV Epoxy Reducer</u>	<u>7.0</u>	<u>gal</u>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<u>Epoxy Primer</u>	<u>36</u>	x	<u>2.2</u>	<u>79.2</u>
<u>Epoxy Reducer</u>	<u>12</u>	x	<u>7.0</u>	<u>84</u>
		x		
Totals	<u>48</u>			<u>163.2</u>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{163.2} / \underline{48} = \underline{3.4}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<u>Primer</u>	<u>4</u>	x	<u>3.4</u>	<u>13.6</u>
<u>Epoxy Hardener</u>	<u>1</u>	x	<u>3.6</u>	<u>3.6</u>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{17.2} / \underline{5} = \underline{3.44}$$

8/29/95



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Sprayable VOC Worksheet for Hydrocat Mixing

Area 610 Tool Box Primer

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<u>515/84</u>	<u>5.56</u>	<u>30 gal Dr</u>
Hardener	<u>625/41</u>	<u>6.85</u>	<u>53 gal Dr</u>
Reducer	<u>X-Slow Reducer</u>	<u>7.71</u>	<u>53 gal Dr</u>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<u>515/84</u>	<u>30</u>	x	<u>5.56</u>	<u>166.8</u>
<u>X-Slow Reducer</u>	<u>12</u>	x	<u>7.71</u>	<u>92.52</u>
		x		
Totals	<u>42</u>			<u>259.32</u>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{259.32} / \underline{42} = \underline{6.17}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<u>515/84 Primer</u>	<u>4.5</u>	x	<u>6.17</u>	<u>27.77</u>
<u>625/41</u>	<u>1</u>	x	<u>6.85</u>	<u>6.85</u>
	<u>5.5</u>			<u>34.62</u>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{34.62} / \underline{5.5} = \underline{6.29}$$

8/29/95


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Sprayable VOC Worksheet for Hydrocat Mixing

 Area *610 Tool Box Topcoat Black*

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<i>Autocoat LV Black</i>	<i>2.64</i>	<i>40 gal Dr</i>
Hardener	<i>LV Hardener</i>	<i>2.65</i>	<i>gal</i>
Reducer	<i>LV Reducer</i>	<i>7.0</i>	<i>gal</i>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<i>Black</i>	<i>40</i>	<i>x</i>	<i>2.64</i>	<i>105.6</i>
<i>LV Reducer</i>	<i>9</i>	<i>x</i>	<i>7</i>	<i>63</i>
		<i>x</i>		
Totals	<i>49</i>			<i>168.6</i>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{168.6} / \underline{49} = \underline{3.44}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<i>LV Black</i>	<i>2.5</i>	<i>x</i>	<i>3.44</i>	<i>8.6</i>
<i>LV Hardener</i>	<i>1</i>	<i>x</i>	<i>2.65</i>	<i>2.65</i>
	<i>3.5</i>			<i>11.25</i>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{11.25} / \underline{3.5} = \underline{3.21}$$

metaflex 3.5 = 50% solids 3.5 VOC

8/29/95



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Sprayable VOC Worksheet for Hydrocat Mixing

Area *610 Tool Box Topcoat White*

Akzo Products Used		VOC lbs/gal	Pkg Size
Coating	<i>Autocoat LV White</i>	<i>2.95</i>	<i>30gal Dr</i>
Hardener	<i>LV Hardener</i>	<i>2.65</i>	<i>gal</i>
Reducer	<i>LV Reducer</i>	<i>7.0</i>	<i>gal</i>
Additives			

Pre-Reduction use this section if no reduction use last section

Product	Amount (Parts)		VOC	Total
<i>White</i>	<i>40</i>	x	<i>2.95</i>	<i>118</i>
<i>LV Reducer</i>	<i>8</i>	x	<i>7.0</i>	<i>56</i>
		x		
Totals	<i>48</i>			<i>174</i>

Total VOC parts / Total parts = Pre Reduced VOC

$$\underline{174} / \underline{48} = \underline{3.63}$$

Mixing Pre-Reduced Paint at Hydrocat must convert ratio to parts

Reduced Paint	Amount (parts)		VOC	Total
<i>LV White</i>	<i>2.5</i>	x	<i>3.63</i>	<i>9.08</i>
<i>LV Hardener</i>	<i>1</i>	x	<i>2.65</i>	<i>2.65</i>
				<i>11.73</i>

Total VOC parts / Total parts = Sprayable VOC at gun

$$\underline{11.73} / \underline{3.5} = \underline{3.35}$$

SPRAY

Equipment & Service Center Inc

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

13233

NO: 101001

DATE: 9/10/93

SHIP VIA: call for routing

FOB: KC Missouri

TERMS: Collect

CUSTOMER CODE: 021037380

BILL TO: Knapheide MFG. Company
436 South 6th Street
Quincy IL 62306

SHIP TO: Knapheide MFG. Company
1701 N. 16th St.
Quincy IL 62301

9-1593 due

PURCHASE ORDER NO. <u>413540</u>			ORDER DATE 8/27/93	SALES PERSON Dennis Stover	OUR ORDER NO.
QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE
Ordered	Shipped	B.O.			EXTENDED PRICE
1			Infra-Red Drying System As per Quotation dated August 26, 1993	Attached	40,862.00 + 61.104 101,966.00
TERMS:					
1/3 Down with Order due			8/27/93		
1/2 Down on Order - Total prior due			9/10/93		
to shipping					
Balance Net 30 Days					
				Amount Due	\$34,119.00
				OK to Pay	
				Per Dan Kater	
9302					
100149000					
ENTERED SEP 14 1993					
607					

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

288MBE18
10-B 20714 TMO
EQUIPMENT & SERVICE C
WICHITA, KANSAS 67202

SPRAY

Equipment & Service Center Inc

13233

NO.: *JK*

DATE: 10/08/93

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

SHIP VIA: Call for Routing
FOB: KC MO
TERMS: Collect

CUSTOMER CODE: 021037380

BILL TO: Knapheide Mfg. Company
436 S. 6th Street
Quincy IL 62302

SHIP TO: Knapheide Mfg. Company
1701 N. 16th St.
Quincy IL 62301

Quincy

10-15-93
du

PURCHASE ORDER NO.

ORDER DATE

SALES PERSON

OUR ORDER NO.

118227

10/01/93

Dennis Stover

LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
1				Infra-Red Drying System per quotation dated 8/27/93		\$61,104.00	\$61,104.00
				<i>per OK pay 50,686.00 when they call - 10,418.30 days later 10-14-93</i>			
				<u>TERMS</u>			
				1/3 Down with order	due 10/01/93		\$20,164.00
				1/2 Down prior to shpmt	10/22/93	<i>50,686</i>	30,522.00
				Balance due 30 Days	11/22/93		10,338.00
							10,418.00
							<i>50,686.00</i>

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

INS:

SPRAY

& Service Center

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

PAGE: 1

NO.: 040919

DATE: 07/26/94

SHIP VIA: F.O.B. FACTORY

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001
KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

13233

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
119915				07/26/94	123 - DENNIS	D06089 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
001	1	1	0	ENCLOSURE DEVILBISS SHEET METAL 44'W X 30'L X 12'H ①=1 9460 1001490000 OK Built Per Quote		36820.00	36820.00
						FREIGHT:	953.99
						TOTAL:	37773.99
IF YOU NEED A STATEMENT PLEASE ADVISE.							

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

INS: RDS



8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

PAGE: 1
REPRINT
NO.: 042318
DATE: 08/16/94
SHIP VIA: DELIVERED
FOB:
TERMS: NET 30
CUSTOMER CODE: 021037380

BILL TO: KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001
KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

13233

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
119915				08/16/94	123 - DENNIS	D06129 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
001	1	1	0	TOT-220 SPECIAL WEATHER-RITE AIR MAKE-UP UNIT		17012.00	17012.00
				9460 10014900			
				OK Bill (Per Quote)			
				899			
						TOTAL:	17012.00
IF YOU NEED A STATEMENT PLEASE ADVISE.							

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

INS: RDS



13233

PAGE: 2

NO. 044176

DATE: 09/14/94

SHIP VIA: UPS NDA GRACO

FOB:

TERMS: NET 30

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO:

0001
KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
424111				08/09/94	123 - DENNIS	025981 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
010	4	4	(12) 0 ✓	108-108 GRACO 100 MESH FILTER ELEMENT RED ALERT FILTER		42.08	168.32
011	6	6	(6) 0 ✓	214-698 GRACO 3000 PSI AIRLESS HOSE 25 FOOT 3/16 BLUE COLOR		50.15	300.90
012	4	4	(7) 0 ✓	214-697 GRACO 3000 PSI AIRLESS HOSE 50 FOOT 3/16 BLUE COLOR		84.36	337.44
013							
014				SHIPPING NDA > GRACO			
						FREIGHT:	78.45
						TOTAL:	1573.60
IF YOU NEED A STATEMENT PLEASE ADVISE.							

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

SPRAY

Equipment & Service Center Inc

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

PAGE: 1

NO. 044176

DATE: 09/14/94

SHIP VIA: DFB NDA GRACO

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001

KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

13233

ok to pay
Jaw
10/5/94

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
424111				08/09/94	123 - DENNIS	025981 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
001	1	1	① 0	103-347 GRACO PDP OFF VALVE 90 PSI		29.70	29.70
002	2	2	② 0	101-759 GRACO VALVE		12.58	25.16
003	1	1	③ 0	180-781 GRACO KIT		13.86	13.86
004	6	6	④ 0	218-559 GRACO /REPAIR KIT 215-930 DISPLACEMENT PUMP		27.63	165.78
005	3	3	⑤ 0	215-913 GRACO REPAIR KIT		56.95	170.85
006	4	4	⑧ 0	215-626 MIXER MANIFOLD 103-209 GRACO PACKING		1.87	7.48
007	2	2	⑨ 0	104-440 GRACO VALVE		26.18	52.36
008	2	2	⑩ 0	104-125 GRACO RED ALERT FILTER INDICATOR		109.65	219.30
009	2	2	⑪ 0	102-859 GRACO SPRING		2.00	4.00
							CONTINUED

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

INS: RDS

SPRAY

& Service Center

PAGE: 1

NO.: 042320

DATE: 08/16/94

SHIP VIA: DELIVERED

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

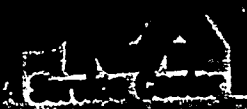
SHIP TO: KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

13233

OK BSA
(for when needed)

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120331				08/16/94	123 - DENNIS	D06130 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
001	400	400	0	TUBE 5/8" X .049 STEEL TUBE		.98	392.00
002	21	21	0	UNION 5/8" TUBE UNION		8.42	176.82
003	2	2	0	TEE 5/8" UNION TEE	9460	16.75	33.50
004	10	10	0	ADAPTER 5/8" TUBE X 1/2 MPT	100149000	5.50	55.00
005	4	4	0	MPT 5/8" TUBE TEE X 1/2 MPT		16.75	67.00
006	96	96	0	100062 HYDRA ZORB 5/8 UNI STRUT CLAMP ASSEMBLIES INCLUDING CUSHIONS		1.75	168.00
007	10	10	0	VALVE 1/2" BALL VALVES		7.50	75.00
008	7	7	0	HOSE 3/8" X 8' HIGH PRESS HOSE		17.68	123.76
009	1	1	0	HOSE 3/8" X 14' H.P. HOSE		28.42	28.42
							CONTINUED

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202



311 Patton
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4348
FAX 316-264-6250

240-S So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

DELIVERED
TERMS: NET 30
CUSTOMER CODE: 021037380

BILL TO: K NAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001
K NAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120331				08/16/94	123 - DENNIS	D06130 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
010	1	1	0	HOSE 3/8" X 10' H.P. HOSE		21.30	21.30
011	3	3	0	HOSE 1/4" X 8' H.P. HOSE		16.30	48.90
012	2	2	0	HOSE 1/4" X 14' H.P. HOSE		12.50	25.00
013	2	2	0	2047-4-4 AEROQUIP SWIVEL ELBOW 1/4F X 1/4M		2.90	5.80
014	1	1	0	2085-4-4 AEROQUIP ELBOW M-M 1/4 X 1/4		2.96	2.96
015	3	3	0	2047-8-6-3 1/2 MPT X 3/8 FS 90'		6.06	18.18
016	4	4	0	2048-8-6 1/2 FPT X 3/8 FS 90'		6.06	24.24
017	2	2	0	2083-8-8 AEROQUIP NIPPLE M-M 1/2		2.46	4.92
							CONTINUED

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

Equipment & Service Center

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

SHIP VIA DELIVERED

FOB:
TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO: KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001
KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120331				08/16/94	123 - DENNIS	D06130 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
018	3	3	0	2081-8-6 AEROQUIP REDUCER/BUSHING 1/2 M X 3/8 F		1.90	5.70
019	3	3	0	2085-6-6 AEROQUIP ELBOW M-M 3/8 X 3/8		2.96	8.88
020	5	5	0	2047-6-6 AEROQUIP SWIVEL ELBOW 3/8F X 3/8M		3.75	18.75
021	6	6	0	2083-4-4 AEROQUIP NIPPLE M-M 1/4		1.20	7.20
022	2	2	0	2083-6-4 AEROQUIP NIPPLE M-M 3/8 X 1/4		1.89	3.78
023	2	2	0	2085-8-8-2 1/2" FPT 90°		4.55	9.10
024	24	24	0	72-1303 BINKS 1/4 " FEMALE FITTING 1/4 " AIR HOSE		2.30	55.20
025	3	3	0	72-1328 BINKS 3/8 FEMALE FITTING 3/8 LOW PRESSURE HOSES		2.30	6.90
026	4	4	0	72-1325 BINKS 1/4 " FEMALE FITTING		2.30	9.20
							CONTINUED

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

SPRAY

Equipment & Service Center Inc

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

DATE: 08/16/94

SHIP VIA: DELIVERED

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001

KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120331				08/16/94	123 - DENNIS	D06130 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
027	4	4	0	3/8 LOW PRESSURE HOSE 182-514		45.00	180.00
028	4	4	0	GRACO AIR ASSISTED AIRLESS TIP (.014) 10-11 " FAN PATTERN 222-607		42.50	170.00
				GRACO FINE FINISH AIR CAP 217-292 AA GUN			
IF YOU NEED A STATEMENT PLEASE ADVISE.						TOTAL:	1745.51

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

INS: DKE



ATTACHMENT 5

8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX 0140
QUINCY, ILLINOIS 62306

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120308				07/15/94	123 - DENNIS	024854 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
01	2	2	0	29-551 BINKS DRAFT GAUGE		50.00	100.00
				#9460 100149000			
				92 7.94			
						FREIGHT:	3.96
						TOTAL:	103.96
IF YOU NEED A STATEMENT PLEASE ADVISE.							

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

11217

HOLLER BUILDING AND HOME CENTER

PAGE NO 1

021 HAMPBIRE

QUINCY, IL 62301

PHONE: (217) 223-4281

NUMBER 423693

DATE 7/18/94

ROOM 11217

NAME HOLLER

4800

CUSTOMER NO	JOB NO	PURCHASE ORDER NO	REFERENCE	TERMS	CLERK	DATE	TIME
423693		423693		10TH, NET EOM	BS	7/18/94	2:02

S H KAPPELDE MANUFACTURING
1 NORTH 16TH (OLD SPEEDWAY)
QUINCY, IL 62301

S H KAPPELDE MANUFACTURING CO.
P.O. BOX C-140
136 SOUTH SIXTH STREET
QUINCY, IL 62301

DOC# 923

* INVOICE *

SLSPR: MM MARK MCGINLEY
TAX: 001 QUINCY ILL

QUANTITY ORDERED	QUANTITY SHIPPED	UNIT	SKU	DESCRIPTION	UNIT PRICE	PRICE/PER	EXTENSION
1	1	EA	6610RM	6X6X10 REMESH 5"X150"	58.48	58.48 /EA	58.48
DELIVER TODAY!!!							
<p><i>applied</i></p> <p><i>2006 H/CO / 10/11/9000</i></p>							

** AMOUNT CHARGED TO STORE ACCOUNT **	62.57	TAXABLE	58.48
		NON-TAXABLE	0.00
		SUBTOTAL	58.48
TAX AMOUNT	4.09		
TOTAL AMOUNT	62.57		

RECEIVED BY
Edith Oreal



FASTENAL®
FIRST IN FASTENERS

Remit to
The Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
507-454-5374 Fax 507-454-6542

10598

Invoice

Date 7/15/94 Invoice No. QNCY30291 Page 1
22.50

Cust. No. QNCY0057 Cust. P.O. 120307 Job No. Attn. Dick Wicke

The store serving you is
506 S. 6th St.
Quincy IL 62301
Phone: 217-223-4117

TERMS: Net 30

Sold To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Ship To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price /C	Amount
1	500	500	0	HW Tek 10 x 3/4	r6443	32037	4.5000	22.50
<p style="text-align: center;">①</p> <p style="text-align: center;">#9460 100149000</p> <p style="text-align: left;">P 7/94</p>								

Received By Phil Oneal
Comments

Tax Exemption

Subtotal	22.50
Shipping & Handling	0.00
State Tax	0.00
County Tax	0.00
City Tax	0.00
TOTAL	22.50

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

No materials accepted for return without our permission.
All discrepancies must be reported within 10 days.

Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
(507) 454-5374

Cust # QNCY0057
PO # 120307

Invoice # QNCY30291 7/15/94
JOB # Attn. Dick Wicke

Please pay from this invoice.
No statement will be sent.

Thank You!

Printed in USA



STEEL
& PIPE
SUPPLY
COMPANY
INC.

12298

INVOICE # 046433

ORDER NUMBER: 753954-ST

July 21, 1994

ACCOUNT NUMBER: 81693 P.O. # 423641

Knapheide Mfg. Co.
P.O. Box C-140
436 SOUTH 6TH
Quincy IL 62306

QUANTITY		DESCRIPTION	WEIGHT	PRICE	EXTENSION
ORDERED	SHIPPED				
1	1	8" 18.4 CUT TO 3 @ 15'	50 I BEAM 920 ①	28.50/CWT	262.20

*** Our FAX Number is (913) 587-5174 ***

920#

AMOUNT:

262.20

SHIPPED TO: Knapheide Co.
1701 N. 16th St.
Quincy IL 62301

TERMS: .5% 10 NET 30

TAX EX. # 1810332

NET DUE WITHIN 30 DAYS FROM DATE OF INVOICE.
IF PAID BY JUL 31, 1994 DEDUCT CASH DISCOUNT OF 1.31
INTEREST OF 1-1/2 PCT PER MONTH CHARGED ON OVERDUE INVOICES

Published commercial tolerances will apply unless
specified on customer's written purchase order.

SHIP CODE: 01 --929--016 IL

Please remit to P.O. Box 27-249, Kansas City, MO 64180

SALES REPRESENTATIVE: Rick Gatlin

INVOICE

12272
HARDWARE, INDUSTRIAL & CONTRACTORS SUPPLIES2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305
217/223-5340
Fax# 217/224-330716
KNAPHEIDE MFG. CO.
436 SOUTH 6TH
P. O. BOX C140
QUINCY

IL 62306

PLEASE REMIT TO:

Black & COMPANY
2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305

PURCHASE ORDER NUMBER

120313

DATE DUE

INVOICE NUMBER

08/10/94

95725

DATE

ACCOUNT
NUMBER

TERMS

07/25/94

K000160000 Net 10th of Month

QUANTITY

DESCRIPTION

UNIT PRICE

TOTAL

1

VNI BIT #1
TAX

14.18

14.18
1.00

9460

100149000

7.94

INVOICE TOTALS

TOTAL
INVOICE
DUE

15.18



FASTENAL®

FIRST IN FASTENERS

Remit to

The Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
507-454-5374 Fax 507-454-6542

Invoice

Date 7/19/94 Invoice No. QNCY30385 Page 1
20.05

Cust. No. QNCY0057 Cust. P.O. 423721 Job No.

The store serving you is
506 S. 6th St.
Quincy IL 62301
Phone: 217-223-4117

TERMS: Net 30

Sold To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Ship To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

10598

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price	Amount
1	50	50	①	SSS CP 1/2-13 x 1/2	r5789	25663	14.6600	7.33
2	12	12	③	T ROD Z 1/4-20 x 6'	j0683	47157	106.0000	12.72

630

950460 7.33

9460

100149000 12.72

7.94

Received By Phil ONeal

Tax Exemption

Comments

Subtotal	20.05
Shipping & Handling	0.00
State Tax	0.00
County Tax	0.00
City Tax	0.00
TOTAL	20.05

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

No materials accepted for return without our permission. All discrepancies must be reported within 10 days.

Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
(507) 454-5374

Cust # QNCY0057
PO # 423721

Invoice # QNCY30385
JOB # 7/19/94

**Please pay from this invoice.
No statement will be sent.**

Thank You!

Printed in USA



WATS: 800-237-3820
FAX: 813-289-7884
TELEX: 52706

PLEASE REMIT TO-----BOX 931099, CLEVELAND, OH 44193-0376

PAGE 1

INVOICE NO. 47658

THE KNAPHEIDE MFG CO

436 S 6TH ST

P O BOX 140

QUINCY, IL 62306-0140

KNAPHEIDE MFG CO

SHIP ATTN: DICK WHICKER

TO 1701 N 16TH ST

QUINCY, IL 62301

CUSTOMER ORDER NO.	SHIPPED VIA	DATE SHIPPED	CUST. NO.	TERMS	P/C	BR	INVOICE DATE	
42368	*CCX*	7/10/94	040402	1/2% 10 NET 30	C	3	7/18/94	
CODE	QUAN.	GAUGE	DESCRIPTION	SIZE	MATERIAL	UNIT	UNIT PRICE	AMOUNT

M412151300

15 13

OPEN GRIP GRATING

12" X 1.5" OPEN GRIP

GALV

60

LOT

360.40

1634011641

2 16

MCNICHOLS QUALITY PERFORATED METAL

3/4 RD 1 STG

48 X 120 CR STEEL

80

LOT

172.00

02-3F10

100 LBS

INVOICE TOTAL 532.40

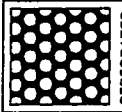
BLESSED IS THE NATION WHOSE GOD IS THE LORD. PSALM 33:12

1047727

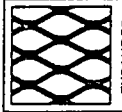
CHI/CHI

JNK 030303M1

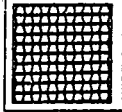
THE
McNICHOLS
STEEL



PERFORATED



EXPANDED



WIRE CLOTH



BAR GRATING



GRIP STRUT



OPEN GRIP



GRATE LOCK

IF INVOICE IS
PAID BY 7/28/94
YOU MAY DEDUCT
2.66

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 8, 7 AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

A SERVICE CHARGE OF 1 1/2% PER MONTH WILL BE ADDED TO ALL ACCOUNTS WITH A BALANCE OVER 30 DAYS OLD. IF THERE IS ANY QUESTION CONCERNING THIS INVOICE PLEASE CALL: TOLL FREE WATS NUMBER 800-237-3820

WE HEREBY CERTIFY THAT THE AMOUNT INVOICED HEREIN DOES NOT EXCEED THE LOWER OF (1) THE CONTRACT PRICE OR (2) MAXIMUM LEVELS ESTABLISHED IN ACCORDANCE WITH EXECUTIVE ORDER 11815, DATED AUGUST 15, 1971.



INVOICE
FURROW BUILDING MATERIALS
5036 BROADWAY
QUINCY, IL 62301
Phone: (217) 223-0103

Number: 0089-083266
Page: 1
Date: 07/15/94

Remit To:
P.O. Box 660333
Dallas, TX 75266

Customer Number: 0201-2722670

THE KNAPHEIDE MFG CO
ATTN: A/P
PO BOX C140
QUINCY, IL 62306-2140

Customer P.O. # 120308
Customer Job #
Authorized Buyer DICK WHICKER
Salesperson THOMAS H.

12796

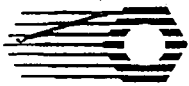
Item	Item Description / Comment	UM	Quantity	Unit Price	Extended Total	Tax	Meth
831700	6767-1 SCREWDRIVING KIT DISCOUNT CODE: 83	EA	1	149.00	149.00	Y	TAKE
				5%	7.45-		
				SUBTOTAL	\$ 141.55		
				TAX	\$ 9.91		
				TOTAL	\$ 151.46		

9460
100149000

Dr
7.99

TOS 02
ORDER 466412

0031-0078 000000



FASTENAL®

FIRST IN FASTENERS

Remit to

The Fastenal Company

P.O. Box 978

Winona, MN 55987-0978

507-454-5374 Fax 507-454-6542

Invoice

Date

Invoice

Page

7/18/94

QNCY30304

1

22.50

TERMS: Net 30

Cust. No.

Cust. P.O.

Job No.

QNCY0057

120309

The store serving you is

506 S. 6th St.

Quincy

IL 62301

Phone: 217-223-4117

Sold To

Knapheide Manufacturing Co.

P.O. Box C140

Quincy

IL 62306-2140

Ship To

Knapheide Manufacturing Co.

P.O. Box C140

Quincy

IL 62306-2140

10598

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price /	Amount
1	500	500		HW Tek 10 x 3/4	r6639	32037	4.5000	22.50
<p>9460</p> <p>100149000</p> <p>7.99</p>								

Received By

Phil

Tax Exemption

Comments

Subtotal	22.50
Shipping & Handling	0.00
State Tax	0.00
County Tax	0.00
City Tax	0.00
TOTAL	22.50

No materials accepted for return without our permission.
All discrepancies must be reported within 10 days.

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

Fastenal Company

P.O. Box 978

Winona, MN 55987-0978

(507) 454-5374

Cust # QNCY0057

PO # 120309

Invoice # QNCY30304

JOB #

7/18/94

**Please pay from this invoice.
No statement will be sent.**

Thank You!

Printed in USA



STEEL
& PIPE
SUPPLY
COMPANY
INC.

12298

INVOICE # 048644

ORDER NUMBER: 746467-ST

ACCOUNT NUMBER: 81693

P.O. # 423641

July 28, 1994

Knapheide Mfg. Co.
P.O. Box C-140
436 SOUTH 6TH
Quincy IL 62306

QUANTITY		DESCRIPTION	WEIGHT	PRICE	EXTENSION
ORDERED	SHIPPED				
1	1	8" 18.4 30 I BEAM CUT TO 2 @ 15'	552	28.50/CWT	157.32

*** Our FAX Number is (913) 587-5174 ***

#9460

100149000

552#

AMOUNT:

157.32

SHIPPED TO: Knapheide Co.
1701 N. 16th St.
Quincy IL 62301

TERMS: .5% 10 NET 30

TAX EX. # 1810332

NET DUE WITHIN 30 DAYS FROM DATE OF INVOICE.
IF PAID BY AUG 7, 1994 DEDUCT CASH DISCOUNT OF .79
INTEREST OF 1-1/2 PCT PER MONTH CHARGED ON OVERDUE INVOICES

Published commercial tolerances will apply unless
specified on customer's written purchase order.

Please remit to P.O.Box 27-249, Kansas City, MO 64180

SHIP CODE: 01 —940—010 IL

SALES REPRESENTATIVE: Rick Gatlin





THOMPSON, INC.

4600 NORTH 24th QUINCY, IL 62301
PHONE 217-223-4580
FAX 217-223-2913

DATE: 01/11/2011 11:51
 FROM: PETER H. C. 5211 MCCP

KNAPHEIDE MFG. CO.

WEST QUINCY MO

KNAPHEIDE MFG. CO.

QUINCY IL

KNAPHEIDE MFG. CO.

QUINCY IL

THOMPSON, INC.

4600 NORTH 24th
QUINCY, IL 62301

PHONE 217-223-4580

FAX 217-223-2913

Cust. No:

1233

INVOICE DATE

AUG. 13, 1994

INVOICE NO.

71063

SHIP DATE

8/6/94

DRIVER

JOHN BELL

G/L ACCOUNT

3100

SHIPPER'S NUMBER

87018

QUANTITY

DESCRIPTION OF COMMODITY

1 LOAD TRANSFER

9460

100351001 Per H H

~~Machinery~~
OK per Harold Higgins

RATE	AMOUNT
------	--------

\$50,000

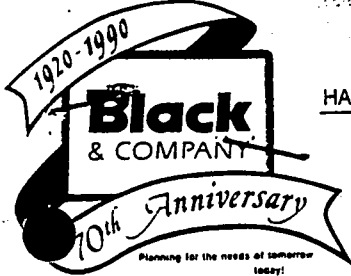
**INTERSTATE COMMERCE COMMISSION REGULATIONS
REQUIRE THIS RAIL TO BE PAID WITHIN 7 DAYS**

**THIS IS YOUR FREIGHT BILL. NO OTHER INVOICE WILL BE
RENDERED. SHOW ALL FREIGHT BILL NUMBERS WHEN REMITTING.**

PAY THIS AMOUNT

\$50.00

~~CUSTOMER'S COPY~~



HARDWARE, INDUSTRIAL & CONTRACTORS SUPPLIES

2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305
217/223-5340
Fax# 217/224-3307

KNAPHEIDE MFG. CO.
436 SOUTH 6TH
P. O. BOX C140
QUINCY

IL 62306

10202

PLEASE REMIT TO:

Black & COMPANY
2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305

PURCHASE ORDER NUMBER

120326

DATE DUE

INVOICE NUMBER

09/10/94

96634

DATE

ACCOUNT
NUMBER

TERMS

08/08/94

K000160000

Net 10th of Month

QUANTITY

DESCRIPTION

UNIT PRICE

TOTAL

15

PORTER CABLE BLADE JIG SAW
TAX

.85

12.75

.90

9460

100149000

9/8
894

INVOICE TOTALS

TOTAL
INVOICE
DUE

13.65

E. BEST PLUMBING AND HEATING SUPPLY CO.

628 JERSEY ST. - P.O. BOX 3426 - QUINCY, ILLINOIS 62305

PHONE AREA CODE 217, 223-3184

INVOICE

DATE	INVOICE NO.	PAGE
08/12/94	66474	1
Invoice		

10533

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

DESCRIPTION

JOB NUMBER

A60085 N. 16TH ST.

CUSTOMER
ORDER NO.

ORDER
DATE

CUSTOMER
NUMBER

SALES-
MAN

PURCHASE
ORDER NO.

SHIPPING
INSTRUCTIONS

SHIP
DATE

08/12/94

2227131

MIKE1

424110

A60085

08/12/94

QUANTITY

UNIT

UNIT PRICE

DISCOUNT

EXTENDED PRICE

ORDERED

SHIPPED

REMAINING

STOCK NUMBER / DESCRIPTION

676.00

676.00

\$0.4500 0.000

\$304.20

GOODOR 4
ORTAC HOSE 1/4

94 60

100/4900

Sc
899

total note

304.20

TERMS: Net 30

SALE AMOUNT

\$304.20

DISCOUNT 0.000

\$0.00

TAX (IL/AC/SP)

\$21.29

FREIGHT

\$0.00

TOTAL

\$325.49

DEPOSIT RECEIVED

\$0.00

BALANCE DUE

\$325.49

Heintz Electric Company

PHONE 217 • 222-0113
FAX 217 • 222-7328
5 S. 10TH ST. - BOX 3005
QUINCY, IL 62305

PHONE 319 • 524-9901
FAX 319 • 524-1048
14TH & JOHNSON - BOX 1207
KEOKUK, IA 52632

PHONE 314 • 221-0990
FAX 314 • 221-5224
HIGHWAY 36 E N. 18TH ST.
HANNIBAL MO 63401



Wholesale Distributors
Since 1948

KNAPHD

INVOICE NUMBER

1101459-01

BILL TO: KNAPEIDE MFG CO
436 SOUTH 6TH ST
PO BOX C140
QUINCY IL 62306

SHIP TO: KNAPEIDE MFG NORTH

QUINCY IL

CUSTOMER P.O. NO. 424146

SHIP/TR/INVOICE NUMBER	SLSMN.	ORDER DATE	TAKER	CUSTOMER P.O. NUMBER	DATE	FREIGHT CODES
1101459-01	104	08/10/94	115	424146	08/10/94	P - PREPAID ALLOWED B - PREPAID ADD C - COLLECT T - TAKEN BY CUST. X -
INSTRUCTIONS						FRT. PAGE NO
						F. 1

QUANTITY		DISP.	ITEM CODE AND DESCRIPTION	U/M	MULT.	UNIT PRICE	AMOUNT
ORDERED	B.O./RET.						
100	100		NEVER LET FEAR OF STRIKING OUT GET IN YOUR WAY! B-LINE B22-S-10FT-GALV SLOT CH	C		163.75	163.75
9460 100149000							
JH 8.99							

CODE EXPLANATION

1 - STATE TAX APPLICABLE
2 - FED/OTHER TAX APPLICABLE
3 - STATE & FEDERAL TAX APPL
4 - BALANCE ORDERED
C - CONSIDER COMPLETE
D - DIRECT SHIPMENT
F - FACTORY MINIMUM
R - RETURNED CYL

*** THIS IS YOUR INVOICE ***

FREIGHT IN	FREIGHT OUT
0.00	0.00

REMIT TO

BOX 3005
QUINCY, IL 62305

SUB TOTAL 163.75
LABOR

FREIGHT TOTAL 0.00

STATE TAX 1.64 0.00

TOTAL AMT DUE
163.75

NET TERMS: PROX 10 DUE: 09/10/94

*** ORDER COMPLETED ***

YOU MAY DEDUCT A CASH DISCOUNT
OF \$1.64 ORIGINAL INVOICE

E. BEST PLUMBING AND HEATING SUPPLY CO.

828 JERSEY ST. - P.O. BOX 3426 - QUINCY, ILLINOIS 62305

PHONE AREA CODE 217, 223-3184

INVOICE

10533

DATE	INVOICE NO.	PAGE
08/12/94	66475	1
Invoice		

BILL TO

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

SHIP TO

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

DESCRIPTION			JOB NUMBER			
A59602						
CUSTOMER ORDER NO.	ORDER DATE	CUSTOMER NUMBER	SALES-MAN	PURCHASE ORDER NO.	SHIPPING INSTRUCTIONS	SHIP DATE
	08/12/94	2227131	MIKE	424110	A59602	08/12/94
QUANTITY			UNIT	UNIT PRICE	DISCOUNT	EXTENDED PRICE
ORDERED	SHIPPED	REMAINING	STOCK NUMBER / DESCRIPTION			
12.00	12.00		RECT50 \$0.6600 0.000 \$7.92			
6.00	6.00		TEFLON TAPE 1/2X260" \$0.4700 0.000 \$2.82			
			SHER119 42			
			1/4H-1/8IP 119 HOSE NIPPLE			
			9460			
			10014900			
TERMS: Net 30					SALE AMOUNT	\$10.74
					DISCOUNT 0.000	\$0.00
					TAX (IL/AC/SP)	\$0.75
					FREIGHT	\$0.00
					TOTAL	\$11.49
					DEPOSIT RECEIVED	\$0.00
					BALANCE DUE	\$11.49

ACCOUNT J

MOLLER BUILDING AND HOME CENTER

PAGE NO 1

821 HAMPSHIRE
QUINCY, IL 62301
PHONE: (217) 223-4281

THANK YOU FOR SHOPPING AT
MOLLER BUILDING AND HOME CENTERS

CUSTOMER NO.	JOB NO. PURCHASE ORDER NO.	REFERENCE	TERMS	CLERK	DATE	TIME
5460	424156		2% 10TH, NET EOM	GR	8/12/94	9:04

S O L D T O
KNAPHEIDE MANUFACTURING CO.
P O BOX C 140
436 SOUTH SIXTH STREET
QUINCY IL 62306

S H I P T O

DOC# 2264

* INVOICE *

SLSR: MM MARK MCINLEY
TAX : 001 QUINCY ILL.

QUANTITY SHIPPED	ORDERED	UM	SKU	DESCRIPTION	SUGG	UNITS	PRICE/PER	EXTENSION
2	1	EA	65	DELIVER TO NORTH 16TH ST THIS MORNING AS SOON AS CON AS PER JOHN WREN		2	8.05 /EA	16.10
				12LB DANTITE ANCHOR CEMENT				
				9460 10335300340				
				160149000				
				899				

23

** AMOUNT CHARGED TO STORE ACCOUNT **

16.10 TAXABLE
0.00 NON-TAXABLE
16.10 SUBTOTAL

1.13 TAX AMOUNT
17.23 TOTAL AMOUNT

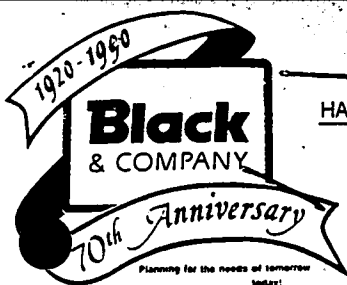
RECEIVED BY

X *For Jackson*

/15

11217

INVOICE



HARDWARE, INDUSTRIAL & CONTRACTORS SUPPLIES

2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305
217/223-5340
Fax# 217/224-3307

KNAPHEIDE MFG. CO.
436 SOUTH 6TH
P. O. BOX C140
QUINCY

IL 62306

10202

PLEASE REMIT TO:

Black & COMPANY
2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305

PURCHASE ORDER NUMBER

120325

DATE DUE

INVOICE NUMBER

09/10/94

96620

DATE

ACCOUNT
NUMBER

TERMS

08/08/94

K000160000

Net 10th of Month

QUANTITY

DESCRIPTION

UNIT PRICE

TOTAL

4

ANCHOR BOLTS
TAX

1.00

4.00
.28

9460

100149000

98
8.99

INVOICE TOTALS

TOTAL
INVOICE
DUE

4.28

INVOICE



HARDWARE, INDUSTRIAL & CONTRACTORS SUPPLIES

2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305
217/223-5340
Fax# 217/224-3307

KNAPHEIDE MFG. CO.
436 SOUTH 6TH
P. O. BOX C140
QUINCY

IL 62306

10202

PLEASE REMIT TO:

Black & COMPANY
2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305

PURCHASE ORDER NUMBER

120327

DATE DUE

INVOICE NUMBER

09/10/94

96635

DATE

ACCOUNT
NUMBER

TERMS

08/09/94

K000160000

Net 10th of Month

QUANTITY

DESCRIPTION

UNIT PRICE

TOTAL

1
1
1

11910 3/8 EXTENSION
20211 9/16 COMBO WRENCH
19115 3/8 DRIVE SET
TAX

4.59
5.68
25.74

4.59
5.68
25.74
2.52

9460

100 14900

92.89

INVOICE TOTALS

TOTAL
INVOICE
DUE



38.53

JAMES SUPPLY CO.

111 North 10th St.
QUINCY, ILLINOIS 62301
(217) 223-3866
1-800-369-3866
FAX 217-223-9988

INVOICE NO: 30370

Invoice

INVOICE DATE: 07/26/94

PAGE: 1

SOLD
TO:

SHIP
TO:

The Knapheide Mfg. Co.
P.O. Box C-140
Quincy, IL 62306

The Knapheide Mfg. Co.

10911

Description	Order Date	Dist PO #	Sales Ord	Shipping Instructions
UNIBIT	07/22/94	423799		PICK UP

ITEM	ORDER	SHIP	DESCRIPTION	PRICE	AMOUNT
A		1.00	#2 UNIBIT	\$13.90	\$13.90
9440 100149000					
982 8.99					

Terms:
NET 30

Disc. (0.000):	\$0.00
Subtotal :	\$13.90
Tax (IL/AC/AC):	\$0.97
Freight :	\$0.00
Less Deposit :	\$0.00
Amount Due :	\$14.87



FASTENAL®
FIRST IN FASTENERS

Remit to
The Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
507-454-5374 Fax 507-454-6542

Invoice

Date 7/25/94 Invoice No. QNCY30533 Page 1
14.70

The store serving you is

506 S. 6th St.
Quincy IL 62301
Phone: 217-223-4117

TERMS: Net 30

Cust. No. QNCY0057 Cust. P.O. 120318 Job No. Attn: Dick Wicke

Sold To

Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Ship To

Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

10598

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price /c	Amount
1	250	250	0	HW Tek 10 x 1 1/4	10436	32039	5.8800	14.70

9460
100149000

7.94

Received By

Comments

Tax Exemption

Subtotal	14.70
Shipping & Handling	0.00
State Tax	0.00
County Tax	0.00
City Tax	0.00
TOTAL	14.70

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
(507) 454-5374

Cust # QNCY0057
PO # 120318

Invoice # QNCY30533
JOB # Attn: Dick Wicke

7/25/94

Please pay from this invoice.
No statement will be sent.

Thank You!



HARDWARE, INDUSTRIAL & CONTRACTORS SUPPLIES

2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305
217/223-5340
Fax# 217/224-3307

KNAPHEIDE MFG. CO.
436 SOUTH 6TH
P. O. BOX C140
QUINCY

IL 62306

10202

PLEASE REMIT TO:

Black & COMPANY
2534 KATHERINE RD.
P. O. BOX 3095
QUINCY, IL 62305

PURCHASE ORDER NUMBER

120330

DATE DUE

INVOICE NUMBER

09/10/94

96760

DATE

ACCOUNT
NUMBER

TERMS

08/12/94

K000160000

Net 10th of Month

QUANTITY

DESCRIPTION

UNIT PRICE

TOTAL

1
2①
②

MAGNA 41180
MAGNA 31452
TAX

4.52
2.48

4.52
4.96
.67

9460

1014900

Mr
1894

INVOICE TOTALS

TOTAL
INVOICE
DUE



10.15



FASTENAL®
FIRST IN FASTENERS

Remit to
The Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
507-454-5374 Fax 507-454-6542

Invoice

Date 8/11/94 Invoice No. QNCY31055 Page 1
41.90

Cust. No. QNCY0057 Cust. P.O. 119957 Job No.

The store serving you is
506 S. 6th St.
Quincy IL 62301
Phone: 217-223-4117

TERMS: Net 30

Sold To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Ship To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

10598

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price	Amount
1	2	① 73	2	0 SDS 5/16 x 6 DAL	r6498	54272	1,130.0000	22.60
2	1	1	1	0 SDS 5/16 x 6 DAL	r5929	54272	1,130.0000	11.30
3	50	②	50	0 HNS 5/16 x 1 1/2	i4806	50303	16.0000	8.00

9460

100 149000

Se 8 99

Received By

Tax Exemption

Comments

Subtotal 41.90
Shipping & Handling 0.00
State Tax 0.00
County Tax 0.00
City Tax 0.00
TOTAL 41.90

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

No materials accepted for return without our permission. All discrepancies must be reported within 10 days.

Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
(507) 454-5374

Cust # QNCY0057
PO # 119957

Invoice # QNCY31055
JOB #

8/11/94

**Please pay from this invoice.
No statement will be sent.**

Thank You!

FARM & HOME

CUSTOMER SIGNATURE

CUSTOMER SIGNATURE

11452

8853269 CASH-1

7443 0001 001

INVOICE #: 00010027443

64283630 EXTENTION 3/8DR	N	3.49
64281975 SOCKET 3/8DR	N	3.49
64283520 RATCHET 3/8DR	* N	13.49
64283520 RATCHET 3/8DR	* N	13.49
64281140 WRENCH, ADJUSTABL	N	9.99
64283724 EXTENSION,	N	3.99
64282686 WRENCH COMB.	N	5.49
1341412 PUNCH, ALIGN.	N	4.49
TOTAL		163.73

ACCOUNT NUMBER

FARM AND HOME CHRG

08/09/94 18:35

①-1

27443

9460

100 149000

RC# 120329

Pr 894

CUSTOMER COPY

CHARGE

☐ FARM & HOME CHARGE ☐ DISCOVER ☐ VISA ☐ MASTER CARD ☐ AE

IMPORTANT: KEEP THIS COPY FOR STATEMENT VERIFICATION

FARM & HOME

CUSTOMER SIGNATURE

10510

KNASHEIDE HFS, CO.

438 S. 6TH STREET

QUINCY

181-0332

11452

IL 062304

8853269 CASH-1

7443 0001 001

INVOICE #: 00010027443

62650016 APRON, BIS 10

2	2	4.99 N	9.98
63460072 APRON, CARPENTER	CM		3.49
64282699 WRENCH COMB.	N		4.99
64281140 WRENCH, ADJUSTABL	N		9.99
64283520 RATCHET 3/8DR	* N		13.49
64282699 WRENCH COMB.	N		4.99
1341412 PUNCH, ALIGN.	N		4.49
64280853 PLIER, LOCK GRIP	N		9.49
64280853 PLIER, LOCK GRIP	N		9.49
64281962 SOCKET 3/8DR	N		2.99
64282699 WRENCH COMB.	N		4.99
64282686 WRENCH COMB.	N		5.49
64282686 WRENCH COMB.	N		5.49
64281962 SOCKET 3/8DR	N		2.99
64281975 SOCKET 3/8DR	N		3.49
64281975 SOCKET 3/8DR	N		3.49
64281962 SOCKET 3/8DR	N		2.99
64283630 EXTENTION 3/8DR	N		3.49

RC# 120329

CUSTOMER COPY

CHARGE

☐ FARM & HOME CHARGE ☐ DISCOVER ☐ VISA ☐ MASTER CARD ☐ AE

IMPORTANT: KEEP THIS COPY FOR STATEMENT VERIFICATION



CENTRAL WELDING SUPPLIES, INC. 10/310

DEALERS IN
WELDING & CUTTING GASES, APPARATUS & SUPPLIES
ARC WELDING MACHINES - NATIONAL CARBIDE

210 SPRING ST. • P.O. BOX 1221 • QUINCY, ILLINOIS 62306 • 217-222-1253



INVOICE

INVOICE NO. **185590**
INVOICE DATE **08/19/94**

SLSM#	TERR.	SHIPPED VIA	CUST. ACCT. #	SHIPPING TICKET #	CUSTOMER P.O. #	DATE OF ORDER	TERMS	PAGE
1	1	OUR TRUCK	43600	194539	120334	08/19/94	NET THE 30TH	1

KNAPHELD MFG. CO.
ATTN ACCTS PAYABLE
P.O. BOX 0140
QUINCY IL 62306

SHIP TO
KNAPHELD MFG
1701 NO 16TH

PART NUMBER	QTY. SHIPPED	QTY. B/O	CYLINDER		DESCRIPTION	UNIT	UNIT PRICE	AMOUNT
			SHIPPED	RETURNED				
RT WELDR	1	1	0	0	RENTAL - WELDER ICE @ AAAAAA/100CH	EA	95.00	95.00
DELIVERY TICKET 194539							Subtotal	95.00
#9460 100149000						OK to pay within per pick up we used & returned		

TERMS: NET 10TH PROX. A Finance Charge of 2% per month (24% per year) minimum charge of \$1.00 will be added to past due accounts.						SALES TAX		DELIVERY		TOTAL
SHIPPING BRANCH						6.65	.00			101.65



PALMYRA SHEET METAL

601 West Ross
PALMYRA, MISSOURI 63461
Phone 769-3271

13391

SOLD BY		DATE	
		8-22 1994	
NAME		Knapheide manufacturing Co	
ADDRESS			
CITY		PO # 120317	
<input type="checkbox"/> CASH	<input type="checkbox"/> CHARGE	<input type="checkbox"/> MOBE RETD	PREVIOUS BALANCE
<input type="checkbox"/> C.O.D.	<input type="checkbox"/> PAID OUT	<input type="checkbox"/> PD. ON ACCT.	
30"X30" ducting - 22 gage plv			
4- 30X30 elbows			
4- 30X30 offsets			
2- 34" roof curbs ① = 1			
2- 30" storm collars			
1- 26" roof curb			
1- 26" storm collar			
20X60 ducting - 22 gage plv.			
24X60 " " " " 3,761.00			
4- 30" X 30" opposed blade dampers with Controls. 432.00			
4193.00			
tax 271.50			
labor to install 1120.00			
total \$ 5584.50			
#79410 5313.00			
100149000			
9.99 motor -			
Thank You!		RECEIVED BY exemption	



MISSOURI: St. Louis • Hannibal • Sikeston • Columbia
ILLINOIS: Sauget • Peoria • Mt. Vernon • Decatur • La Salle
INDIANA: Indianapolis • Ft. Wayne • Lafayette • Muncie

REMIT TO: WIESE PLANNING & ENG. INC.
P.O. BOX 60106
ST. LOUIS, MISSOURI 63160

KNAPHEIDE MFG CO
436 S 6TH ST
PO BOX C 140
QUINCY ILL

62306

12047
TERMS: NET 10 DAYS

A FINANCE CHARGE OF 1% PER MONTH
WILL BE ADDED TO PAST DUE ACCOUNTS.

INVOICE NO.	INVOICE DATE	CUSTOMER NO.	BR.	DATE	SALESMAN	PAGE
RS17102	8/23/94	0572000	00			1
PURCHASE ORDER NO.	MAKE	MODEL	SERIAL NUMBER	EQ. NO.	MACHINE HRS.	
120304	JLG	CM1432	0200007345			
QTY. SHIP	QTY. B/O	PART NUMBER	DESCRIPTION	UNIT PRICE	TOTAL	
1			RENTAL CHARGE: FROM 8/08/94 TO 8/12/94			
1			FOR 1 WEEK RENTAL			
			*** END OF RENTAL ***			
			RENTAL CHARGE	180.00		
			DRAYAGE CHARGE	140.00		
			TOTAL OTHER		320.00	
			*** 0000			
			**** 0000			
			<i>Dec 1</i>			
			<i>#9460</i>			
			<i>100149000</i>			
			<i>g.g.y</i>			

* - NON-RETURNABLE ITEM
- RESTOCKING CHARGE APPLIED

• PARTS RETURNED MUST BE
ACCOMPANIED BY ORIGINAL
INVOICE.

• RETURNS SUBJECT TO RE-
STOCKING CHARGE

• CLAIMS FOR SHORTAGES
MUST BE MADE WITHIN
TEN DAYS

PAY THIS
AMOUNT
AMOUNT
CREDITED

320.00

ORIGINAL INVOICE

INVOICE

E. BEST PLUMBING AND HEATING SUPPLY CO.

INVOICE

628 JERSEY ST. - P.O. BOX 3426 - QUINCY, ILLINOIS 62305
PHONE AREA CODE 217, 223-3184

10533

DATE	INVOICE NO.	PAGE
08/17/94	66867	1
Invoice		

B
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T
O

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

S
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P
T
O

KNAPHEIDE MFG. CO.
P.O. BOX C140
436 SO. 6TH
QUINCY, IL 62306

DESCRIPTION			JOB NUMBER			
A60073 PLUS FRT.						
CUSTOMER ORDER NO.	ORDER DATE	CUSTOMER NUMBER	SALES-MAN	PURCHASE ORDER NO.	SHIPPING INSTRUCTIONS	SHIP DATE
	08/17/94	2227131	MIKE1	424110	A60073	08/17/94
QUANTITY			UNIT	UNIT PRICE	DISCOUNT	EXTENDED PRICE
ORDERED	SHIPPED	REMAINING	STOCK NUMBER / DESCRIPTION			
6.00	6.00	3	\$23.7500 0.000 \$142.50			
0.00	0.00		76-101 1/4" APOLLO STAINLESS \$0.0000 0.000 \$0.00			
0.00	0.00		STEEL BALL VALVES \$0.0000 0.000 \$0.00			
			SPECIAL ORDER!!			
			9460 100 149000			

TERMS: Net 30

SALE AMOUNT	\$142.50
DISCOUNT 0.000	\$0.00
TAX (IL/AC/SP)	\$9.98
FREIGHT	\$21.00
TOTAL	\$173.48
DEPOSIT RECEIVED	\$0.00
BALANCE DUE	\$173.48

SPRAY

& Service Center

**311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250**

**240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855**

DATE: 08/31/94

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO: KNAFHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

0001
SHIP TO: KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL. 62301

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
424418				08/26/94	123 - DENNIS	026868 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
01	2	2	0	214-711 GRACO 3 WAY BALL VALVE 5000 PSI VITON SEALS COMING FROM 01 #9462 100149000		62.35	124.70
02							
						FREIGHT:	3.79
						TOTAL:	128.49
IF YOU NEED A STATEMENT PLEASE ADVISE.							

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

11543



RICHARDS ELECTRIC MOTOR CO.
 426 STATE STREET
 QUINCY, ILLINOIS 62301
 AREA 217 • 222-7154 or 222-7162



SOLD TO:

KNAPHEIDE MANUFACTURING
 436 SO. 6TH STREET
 P.O. BOX C 140
 QUINCY IL 62306-2140

Complete Motor Service
 REWINDING — NEW MOTORS — BELTS
 CONTROLS • PULLEYS-GEAR REDUCERS

SHIP TO:

CUSTOMER ORDER NO.	SOLD BY	CUST. NO.	SHIP VIA	DATE	INVOICE NO.
120305		00208		08/31/94	
QUAN.	DESCRIPTION	CODE	LIST	UNIT PRICE	AMOUNT
	INSTALL NEW PAINT OVEN PER QUOTE.	0450			6618.30
		0954			1241.41
					7859.71
					7859.71

① = 1

#9460

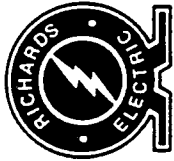
100 149 500

For 9.91

TERMS: ALL ACCOUNTS DUE 10TH OF MONTH FOLLOWING DATE OF PURCHASE. IF NOT PAID WITHIN THIS PERIOD, CREDIT ARRANGEMENTS MUST BE MADE WITH OUR OFFICE.

WE APPRECIATE
 YOUR BUSINESS

NET



RICHARDS ELECTRIC MOTOR CO.

426 STATE STREET
QUINCY, ILLINOIS 62301
AREA 217 • 222-7154 or 222-7162

SOLD TO:

KNAPHEIDE MANUFACTURING
436 SO. 6TH STREET
P.O. BOX C 140
QUINCY IL 62306-2140

SHIP TO:



Complete Motor Service
REWINDING — NEW MOTORS — BELTS
CONTROLS — PULLEYS-GEAR REDUCERS

CUSTOMER ORDER NO.		SOLD BY	CUST. NO.	SHIP VIA	DATE	INVOICE NO.
424320			00208		08/31/94	573117
QTY	DESCRIPTION	CODE	LIST	UNIT PRICE	AMOUNT	
	PAINT BOOTH EXTRAS.	0450		LABOR	1335.01	
	LIGHTS BEHIND PAINT BOOTH &	0954		PARTS	976.61	
	DRY OVEN & DOOR INTERLOCKS.			SUBTOTAL	2311.62	
	RELEASE SOLENOID ON HOIST.			TOTAL	2311.62	
	PUMPS REMAINS TO BE DONE.					

NOTE: PARTIAL BILLING.

#79460

100 1490000

per 19.94

TERMS: ALL ACCOUNTS DUE 10TH OF MONTH FOLLOWING DATE OF PURCHASE. IF NOT PAID
WITHIN THIS PERIOD, CREDIT ARRANGEMENTS MUST BE MADE WITH OUR OFFICE.

WE APPRECIATE
YOUR BUSINESS

NET



RICHARDS ELECTRIC MOTOR CO.
426 STATE STREET
QUINCY, ILLINOIS 62301
AREA 217 • 222-7154 or 222-7162

SOLD TO:

KNAPHEIDE MANUFACTURING
436 SO. 6TH STREET
P.O. BOX C 140
QUINCY IL 62306-2140

Complete Motor Service
REWINDING — NEW MOTORS — BELTS
CONTROLS — PULLEYS-GEAR REDUCERS

SHIP TO:

ME Dept

CUSTOMER ORDER NO.		SOLD BY	CUST. NO.	SHIP VIA	DATE	INVOICE NO.
120337			00208		08/31/94	574077
QUAN.	DESCRIPTION	CODE	LIST	UNIT PRICE	AMOUNT	
	INSTALL PUSHBUTTONS ON PAINT	0450		LABOR	435.75	
	OVEN TO CONTROL AUDIBLE	0954		PARTS	320.84	
	ALARMS FOR OPERATORS.			SUBTOTAL	756.59	
				TOTAL	756.59	
				MACH EXEMP		

TERMS: ALL ACCOUNTS DUE 10TH OF MONTH FOLLOWING DATE OF PURCHASE. IF NOT PAID
WITHIN THIS PERIOD, CREDIT ARRANGEMENTS MUST BE MADE WITH OUR OFFICE.

**WE APPRECIATE
YOUR BUSINESS**

NET

CRESCENT OF QUINCY INC.
*** I N V O I C E ***

Number : 4648 - Invoice
Account: 11160
Slm # : HOUSE

Date: 09/01/94
Page: 1

Bill To:
KNAPHEIDE MFG. CO.
PO BOX C 140
QUINCY, IL 62306

Ship To:
KNAPHEIDE MFG. CO.
PO BOX C 140
QUINCY, IL 62306

10429

120302

Description Order Date Cust PO # Sales Ord Shipping Instructions

Invoice 09/01/94 QUOTE 1003048 ID WICKER

Code	Quantity	UM	Description	Price	Amount
A	204	EA	FILTERS FAC F20X48X1 QUOTED PER STEVE O'QUINN THIS IS REBILL TO CORRECT QUOTED PRICE	\$2.97	\$605.88

7460

10014900

JS
9.99

Terms:
2% 10th Prox

Payment to:

CRESCENT OF QUINCY INC.
635 NO 3RD
QUINCY, IL 62301

Disc. (0.000): \$0.00
Subtotal : \$605.88
Tax (ILLINOIS): \$42.41
Freight : \$0.00
Less Deposit : \$0.00

Amount Due : \$648.29



Remit to
The Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
507-454-5374 Fax 507-454-6542

Invoice

Date 9/ 7/94 Invoice No. QNCY31868 Page 1
14.05

Cust. No. QNCY0057 Cust. P.O. 120460 Job No.

The store serving you is
506 S. 6th St.
Quincy IL 62301
Phone: 217-223-4117

TERMS: Net 30

Sold To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

Ship To
Knapheide Manufacturing Co.
P.O. Box C140
Quincy IL 62306-2140

10598

Please detach and send with remittance to above address

Line No.	Quantity Ordered	Quantity Shipped	Quantity Backorder	Description	Control No.	Part No.	Price /	Amount
1	100	100	0	PPh Tek. 10 x 3/4	r6490	32012	4.9800	4.98
2	50	50	0	PhFI Waf 'H 10 x1 1/2	r6731	32093	7.5000	3.75
3	50	50	0	PhFIWaf 10-24x1 7/16	r6695	32089	10.6300	5.32

D-1

9460

100149000

9/2 9.94

Received By

Tax Exemption

Comments

Subtotal	14.05
Shipping & Handling	0.00
State Tax	0.00
County Tax	0.00
City Tax	0.00
TOTAL	14.05

No materials accepted for return without our permission.
All discrepancies must be reported within 10 days.

Reasonable collection and attorneys fees will be assessed to all accounts placed for collection.

Fastenal Company
P.O. Box 978
Winona, MN 55987-0978
(507) 454-5374

Cust # QNCY0057
PO # 120460

Invoice # QNCY31868
JOB # 9/ 7/94

Please pay from this invoice.
No statement will be sent.

Thank You!

SPARROW PLUMBING & HEATING, INC.
313 Delaware
QUINCY, ILLINOIS 62301

Knapheide Manufacturing Co.
C/O Linda
436 South 6th Street
Quincy, Illinois 62301

Sept. 8, 1994

P.O. 12031

8-5-94 thru 8-18-94

Installed sprinkler system in Paint Booth.

79½-hours labor @ \$45.00

Architectonics

3-1½" 90's

6-1½" tee's

3-3" 90's

1-3"x3"x1½" tee

1-3"x2½"x1½" tee

1-2½"x2"x1½" tee

1-1½" 90

4-1½"x1½"x1½" tee's

20-1½" 90's

12-ft. 2½" sch. 40 blk.

63-ft. 1½" sch. 40 blk.

40-hangers

D-1

9460

100145000

9.94

(217) 223-9289
FAX (217) 223-9295

13867

She told Carol I needed
they all broken down,
when she did she found
an error. Do you want to
do another review?

13-hrs. labor @ \$67.50=	877.50
24-Sprinkler heads	240.00
1-1½"x1½"x1½" tee	5.62
1-1" valve for drain	175.00
1-3" victaulic tee & g	
3-3" grippers	185.00
1-3" control valve	8.20
1-2"x1½"x1½"	22.48
4-1½"x1½"x1½" tee's	43.92
24-1½"x½" reducer	117.81
21-ft. 3" sch. 40 blk.	32.04
12-ft. 2" sch. 40 blk.	300.60
180-ft. 1½" pipe	8.00
20-ft. 3/8" rod	
	<u>\$8,232.76</u>

SUPERIOR EXPRESS, INC.

HOME OFFICE
210 W. THIRD STREET
WATERLOO, ILLINOIS 62298
TELEPHONE 939-6015

SUXP 13186

PRO. 645517

CONSIGNEE, ADDRESS AND DESTINATION

Knapheide
1701 North 16th St.
Quincy, IL. 62230

SHIPPER, ADDRESS AND ORIGIN

B. J. Alberts Co., Inc.
Wichita, KS. 67219

DATE

8-1-94

[Signature]

DO NOT USE THIS SPACE.
THIS FREIGHT BILL IS DESIGNED TO MEET THE
REQUIREMENTS OF THE INTERSTATE COMMERCE COM.
MISSION AND THE FREIGHT CHARGES MUST BE PAID
AS REQUIRED BY SECTION 223 OF PART 1 OF THE
INTERSTATE COMMERCE ACT.

CONN. LINE		SHIPPER'S NO.	
Central Frt. Lines 51334743-5			
NO. PIECES	DESCRIPTION OF ARTICLES AND SPECIAL MARKS	WEIGHT	TOTAL CHARGES
1	Tube Hydraulic Steel Tubing 9460 100149002	150 M	62.00 coll
<p>RECEIVED SEP 19 1994</p> <p>9-21-94</p>		DATE DELIVERED	9-21-94
<p>RECEIVED THE ABOVE DESCRIBED PROPERTY IN GOOD CONDITION EXCEPT AS NOTED.</p> <p>FIRM <i>[Signature]</i></p>		TIME DELIVERED	A. M. P. M.
<p>BY <i>[Signature]</i></p>		DRIVER	Gary Sany
ORIGIN	\$ 31.00		
SUP. EXP.	\$ 31.00		
BEYOND*	\$		

ORIGINAL FREIGHT BILL

NOT RESPONSIBLE FOR CONCEALED
DAMAGES REPORTED LATER THAN FIFTEEN
(15) DAYS AFTER DELIVERY.

INS+ DKG



8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

PAGE: 1

NO: 041576

DATE: 08/04/94

SHIP VIA: UPS NDA

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO: 0001
KNAPHEIDE MFG. CO.
1701 NO. 16TH ST.
QUINCY IL, 62301

13233

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
120314				07/25/94	123 - DENNIS	025243 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
01	2	2	① 0	SR-3405 FAN STACK RING		67.60	135.20
02	2	2	② 0	SR-1705 FAN STACK RING		52.00	104.00
03							
04							
05				NO SHIPPING CHARGES PER DENNIS STOVER			
				9460 100149000			
				IF YOU NEED A STATEMENT PLEASE ADVISE.		TOTAL:	239.20

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

520 Spring St.
QUINCY, ILLINOIS 62301

11772

DATE 10-1-94
NUMBER

Quincy, .Il. 62306-2140

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

\$ _____

DATE	CHARGES AND CREDITS	BALANCE
	P.O. # 120306 BALANCE FORWARD	
	For 2 Paint booth pits. See material and labor record. attached.	\$1,798.00
	(D-1)	
	project # 9460 100149002	
	Jsc 11-9-99	

TENK BROS. CONSTRUCTION

Thank You

PAY LAST AMOUNT
IN THIS COLUMN

INS: RDS



8115 "H" Street
Omaha, NE. 68127
402-339-0330
FAX 402-339-0418

311 Pattie
Wichita, Kansas 67211
P.O. Box 11525 • Wichita, Kansas 67202
316-264-4349
FAX 316-264-5250

240-B So. Union St.
Springfield, Mo. 65802
417-831-1452
FAX 417-831-0855

PAGE: 1

NO. 042402

DATE: 08/17/94

SHIP VIA: UPS

FOB:

TERMS: NET 30

CUSTOMER CODE: 021037380

BILL TO:

KNAPHEIDE MFG. COMPANY
436 SOUTH SIXTH STREET
PO BOX C140
QUINCY, ILLINOIS 62306

SHIP TO:

TEMP
KNAPHEIDE MFG. CO.
ATTN. BUTCH EARL
1701 NO. 16TH ST.
QUINCY, IL 62301

f/c

13233

PURCHASE ORDER NO.				ORDER DATE	SALES PERSON	OUR ORDER NO.	
12032 120332				08/15/94	123 - DENNIS	026242 02	
LINE NO.	QUANTITY			DESCRIPTION	DISCOUNT	UNIT PRICE	EXTENDED PRICE
	Ordered	Shipped	B.O.				
001	6	6 (1)	0	222-607 GRACO FINE FINISH AIR CAP 217-292 AA GUN		42.50	255.00
002	6	6 (2)	0	182-514 GRACO AIR ASSISTED AIRLESS TIP (.014) 10-11 " FAN PATTERN		51.00	306.00
004	4	4 (3)	0	FN94 BINKS HIGH VOLUME LOW PRESSURE		38.25	153.00
<p>9440</p> <p>10149000</p> <p>He 10.99</p> <p>no, test note</p>							
IF YOU NEED A STATEMENT PLEASE ADVISE.						FREIGHT:	3.79
						SALES TAX:	42.66
						TOTAL:	760.45

REMIT TO: P.O. Box 11525 • Wichita, Kansas 67202

717.79

Clarklift of Quincy, Inc.

REMIT TO: 2426 West Schneidman Drive, Quincy, IL 62301
2426 West Schneidman Drive, Quincy, IL 62301
(217) 224-6600

INVOICE NUMBER

QRI018540

INVOICE DATE

08/24/1994

PAGE 1

2064.00

10362

SOLD TO:

SHIP TO:

KNAPHEIDE MANUFACTURING CO.
P.O. BOX C-140

QUINCY

IL 62306

KNAPHEIDE MANUFACTURING CO.
OLD SPEEDRACK BUILDING
NORTH 16TH STREET5
QUINCY IL 62306

Customer Order No.	Date	Ship Via	Terms	SO Number	Date
40120	1/1	DELIVERED	Net 10 Days	1185	08/15/1994
Make	Model	Serial Number	Control No.	Customer's Unit Numbers	Hour Meter
BANDIT	2546	2546820910	7864		

Quantity	DESCRIPTION	Unit Price	Extension
	RENTAL OF 2546 BANDIT S/N 2546820910 FOR ONE WEEK @ \$325.00 PER WEEK & TWO DAYS @ \$65.00 PER DAY PRORATED TO THE WEEKLY RATE - FROM 8-5-94 TO 8-15-94 DELIVERY & PICK UP CHARGES		
1	WEEK(S) SHORT TERM RENTAL	325.00	325.00
2	DAY(S) SHORT TERM RENTAL	65.00	130.00
2	LABOR DRIVER	39.00	78.00
	Order Gross Amount		533.00
	Invoice Net Amount		533.00

9460

100149000

~~RECEIVED~~
received per Hls

ENTERED AUG 31 1994

9-12-94

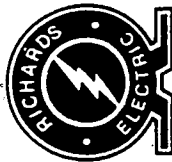
jc

11 LEATHERS

Pay This Amount

533.00

ALL CLAIMS MUST BE MADE IMMEDIATELY UPON RECEIPT OF GOODS. Goods or services covered by this invoice were produced in compliance with the Fair Labor Standards Act of 1938 as amended. RETURNED PARTS MUST BE PREPAID.
No goods accepted for credit unless returned with this invoice within 15 days. 15% restocking charge on all returned parts.
NO REFUNDS ON ELECTRICAL OR SPECIAL ORDER PARTS.



RICHARDS ELECTRIC MOTOR CO.
426 STATE STREET
QUINCY, ILLINOIS 62301
AREA 217 • 222-7154 or 222-7162



Complete Motor Service
REWINDING — NEW MOTORS — BELTS
CONTROLS — PULLEYS-GEAR REDUCERS

SOLD TO:
KNAPHEIDE MANUFACTURING
436 SO. 6TH STREET
P.O. BOX C 140
QUINCY IL 62306-2140

SHIP TO:

CUSTOMER ORDER NO.	SOLD BY	CUST. NO.	SHIP VIA	DATE	INVOICE NO.
424320		00208		11/29/94	573117A
QUAN.	DESCRIPTION	CODE	LIST	UNIT PRICE	AMOUNT
	PAINT BOOTH EXTRAS.	0450			420.00
	INSTALLED RELEASE SOLENOIDS	0152			61.25
	ON PAINT PUMPS, COMPLETE DOOR	0171			0.28
	INTERLOCKS.	0554			19.33
	FINAL BILLING.				
				SUBTOTAL	500.86
				IL 7.00%	4.31
				TOTAL	505.17

TERMS: ALL ACCOUNTS DUE 10TH OF MONTH FOLLOWING DATE OF PURCHASE. IF NOT PAID
WITHIN THIS PERIOD, CREDIT ARRANGEMENTS MUST BE MADE WITH OUR OFFICE.

**WE APPRECIATE
YOUR BUSINESS**

NET

Central Steel & Wire Company

EVERY RECEIPT

ORIGINAL INVOICE

PING WEIGHT
SEE INVOICE

INVOICE NUMBER
361921

INVOICE DATE
07-20-94

SALESMAN
028

STATISTICAL CODE
1.10013

CUSTOMER CODE
28727

DATE SHIPPED
07-20-94

CUSTOMER'S ORDER
423676

DATE ENTERED
07-18-94

361921

OUR ORDER NUMBER

361921

217) 222-7

HOW SHIPPED: OUR TRUCK UNLESS OTHERWISE SHOWN

TERMS: CODE 1 - 1/2% 10 DAYS, NET 30 CODE 3 - 1% 10 DAYS, NET 30 CODE 5 - 2% 10 DAYS, NET 45
CODE 2 - 3/4% 10 DAYS, NET 30 CODE 4 - 2% 10 DAYS, NET 30 CODE 6 - NET 30 DAYS

SHIP TO (SAME UNLESS SHOWN)

KNAPHEIDE MFG CO

P O BOX C140

QUINCY, IL 62306-2140

ATTN: DICK WHICKER
1401 N 16TH ST

10308

SHIPPED FROM CHICAGO PLANT

PHONE (312) 471-3800

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTIONS 6, 7, AND 12 OF THE FAIR LABOR STANDARDS ACT, AS AMENDED, AND OF REGULATIONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.

ALL SALES SUBJECT TO TERMS AND CONDITIONS IN OUR STOCK LIST AND ON REVERSE SIDE

QTY ORDERED	SIZE AND DESCRIPTION	TERMS	QTY SHIPPED	PRICE	AMOUNT
7PC	19W2 STEEL GRATING WELDED 2-1/4" X 3/16" BEARING BARS 24" X 48" SMOOTH UNPAINTED UNBANDED	1	56 SF 952 #	18.97 U	1062.32
	DISCOUNT ALLOWABLE ONLY ON METAL \$5.31		TOTAL	DELIVERED	***1062.32
				IF PAID WITHIN TERMS STATED ABOVE	

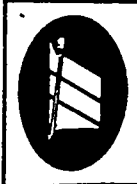
#9462

100149002

ENTERED JUL 27 1994

SUBJECT
CONDITIONS
K LIST
REVERSE SIDE





Weather-Rite Inc.

616 North Fifth Street
Minneapolis, MN 55401
Phone: (612) 338-1401

PLEASE
REMIT

TO

WEATHER-RITE, INC.

616 N. FIFTH STREET

MINNEAPOLIS MN 55401

ORIGINAL

INVOICE

DE NUMBER

THIS NUMBER

1-245975

DATE SHIPPED 12/05/94	SHIPPED VIA CCX	FOB. ORIGIN	CUSTOMER ORDER NO.	TERMS NET 30 DAYS	INVOICE DATE 12/05/94	INVOICE NO. 025486-00
--------------------------	--------------------	----------------	--------------------	----------------------	--------------------------	--------------------------

(Same Address As Sold To - Unless Indicated Below)

S O L D T O

KNAPHEIDE MFG

1701 N 16TH STREET

QUINCY

IL

62301

QUINCY

1701 N 16TH STREET

IL

62301

S H K N A P H E I D E M F G

QUANTITY		DESCRIPTION	PART NUMBER	PRODUCT CODE	JOB NUMBER	UNIT PRICE	AMOUNT
ORDERED	B/O						
1	0	1 FOR UNIT SHIPPED 8/5/94	*FRT CHARGES			.00	.00
9460 100149000 OK to pay? cancel over							
FREIGHT CHGS 223.50							
TOTAL INVOICE 223.50							
*** CLOSED ORDER ***							

SALES ORDER NO. 25486-00	CO. 53	CUSTOMER NO. 10375	CITY	STATE	SALESMAN	TERRITORY	DISTRIBUTOR	DUNS. NO.
-----------------------------	-----------	-----------------------	------	-------	----------	-----------	-------------	-----------

INTERNAL LABOR & MATERIALS:

LABOR: (JOURNAL ENTRIES)

JULY	1,948.78	
AUGUST	6,567.53	
SEPTEMBER	<u>735.31</u>	
		9,251.62

MATERIAL: (JOURNAL ENTRIES)

JULY	1,696.51	
AUGUST	181.00	
	<u>524.54</u>	
		2,402.05

TOTAL

\$ 11,653.67

Gerry Kal



INVOICE

**SOCIETY OF
MANUFACTURING
ENGINEERS**ADDRESS
INQUIRIES TO:

ONE SME DRIVE P.O. BOX 930 DEARBORN, MI 48121

AREA CODE 313-271-1500

INVOICE NO.

627637

CUSTOMER P.O. NUMBER

DATE 02-22-94

DESCRIPTION	SME CODES	AMOUNT
PAINT TECHNOLOGY: CLEANING & PAINTING METAL MANUFACTURED PARTS - JANUARY 27-28, 1994 18 TOTAL ATTENDEES BASE FEE FOR 15 PARTICIPANTS \$4275.00 PLUS 3 ADDL AT \$65/EA 195.00 INSTRUCTOR'S TRAVEL EXPENSE 740.12 TOTAL FEE DUE \$5210.12 ANY QUESTIONS CONTACT ROSE CIPRIANO	26422/6107	5210.12CR
ENTERED MAR 21 1994		
640960522 per JHK		
138233		
AMOUNT DUE		\$ 5210.12

PLEASE INCLUDE INVOICE NUMBER WITH YOUR PAYMENT

SME CODES: 5,210.12 AR 99999/1341

BILL TO:

GERRY KORB
VICE PRESIDENT OPERATIONS
KNAPHEIDE MANUFACTURING CO
436 SOUTH SIXTH STREET
QUINCY IL 62306-2140

SHIP TO: (SAME AS SOLD TO UNLESS OTHERWISE INDICATED)

OK to pay Gerry 2/25/94

RETAIN THIS PORTION FOR YOUR RECORDS
DETACH THIS PORTION AND RETURN WITH YOUR REMITTANCE**SOCIETY OF
MANUFACTURING
ENGINEERS**

REMIT TO:

P.O. BOX 77058 DETROIT, MI 48277

INVOICE NO.

627637

CUSTOMER P.O. NUMBER

DATE 02-22-94

BILL TO:

GERRY KORB
VICE PRESIDENT OPERATIONS
KNAPHEIDE MANUFACTURING CO
436 SOUTH SIXTH STREET
QUINCY IL 62306-2140

AMOUNT DUE \$ 5210.12

00521012 6276377

RAUX

ID:

TRAVEL EXPENSE REPORT

SOCIETY OF MANUFACTURING ENGINEERS
ONE SME DRIVE, P.O. BOX 930
DEARBORN, MICHIGAN 48121

NAME ROBERT D. GREAR
ADDRESS 1031 REGAN LANE
SPRINGFIELD, OHIO 45503
SOCIETY TITLE CHAIRMAN AFP/SME
INSTRUCTOR - PAINT TECH. CLEANING & PAINTING
MFG. D. PARTS COURSE
EMPLOYEE PERSONAL # _____

TRAVEL REIMBURSEMENT DATE 1-31-94
EXPENSE REIMBURSEMENT PURPOSE OF TRAVEL/EXPENSE 26422
CHARGE TO COST CENTER _____

ENTER DATES		1-26-94	1-27-94	1-28-94	TOTALS	
ITINERARY	ORIGIN	SPFLD, OHIO		DAYTON, OHIO		
	DESTINATION	DAYTON, OHIO	QUINCY, IL	SPFLD, OHIO		
	DAILY MILEAGE	32		32		
Mileage <u>28</u>		896		896	17	92
Air Fare		572	42		572	42
Parking and Tolls				975	9	75
Taxi and Bus Fares				123 53 (AUTO RENTAL)	123	53
Lodging		PROVIDED	PROVIDED			
Tips and Baggage						
Telephone & Telegraph						
Other (Explain below)						
1						
2						
SUB TOTAL TRAVEL		581 38	—	142 24	723	62
Meals—Breakfast—Including Tip		—	PROVIDED	PROVIDED		
—Lunch —Including Tip		—	PROVIDED	PROVIDED		
—Dinner —Including Tip		9.50	PROVIDED	7.00		
Guests: Explain on Reverse Side					16	50
MEALS & GUESTS TOTAL		9.50	—	7.00	740	12
GRAND TOTAL		590 88	—	149 24		

HEADQUARTERS USE ONLY

Accounting Distribution

Account Number	Amount
----------------	--------

MEALS -7193	
-------------	--

26422-7397	740 12
------------	--------

26422-7249	1000 00
------------	---------

(210)

I hereby certify that all expenses claimed above were incurred on official SME business and I am not accepting reimbursement for these expenses from more than one party.

SIGNATURE Robert D. GrearSTAFF APPROVAL Dr. J. CiprianoSTAFF APPROVAL [Signature]

ADMINISTRATIVE REVIEW:

BY [Signature] 2/9

BY _____

Less Charges (Reverse Side) _____

Amount applied to advance account: _____

VO# _____

Less Donation to SME Education Foundation _____

Due to SME _____

Balance Due Payee ... 740.12

Exchange Rate: \$ _____ Currency _____

NOTE: Completed Travel Expense Reports must be submitted to the appropriate Staff Member for approval within 60 days from the date of travel.

All SME travel must include a brief trip report, except in the case of meetings or travel where minutes will be produced and distributed following the meeting.

Expense Reports not complying with these policies will not be reimbursed.

ACCOUNTING REVIEW:

By _____

BE SURE TO ENTER ANY CHARGED EXPENSES ON FRONT OF FORM, EXPLAIN ON THE REVERSE SIDE AND ORIGINAL RECEIPT FOR AIR TICKETS, HOTEL BILLS, ETC.

STATEMENT

DAYS INN
200 Maine
Quincy, IL 62301

13572
IW

DATE 2/2/94

TO Knapheide Manufacturing
POB C-140
Quincy, Il. 62206-2140

DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE \$ 356.81

Charges from 1/27/94	\$ 173.55
Charges from 1/28/94	183.26

\$ 356.81 ✓

ENTERED FEB 16 1994

Please see attached checks.

Thank you for choosing Days Inn!!!!

Gerry
2/4/94
ccu 640
640970100

STATEMENT

DAYS INN
200 Maine
Quincy, IL 62301

DATE January 30, 1994

TO Knapheide Equipment Company
2431 North Fifth
Quincy, Il. 62301

DETACH AND RETURN UPPER PORTION WITH YOUR REMITTANCE \$ 77.70

Overnight lodging for Robert
Grear at \$35.00 plus tax
for 1/26 & 1/27/94

\$ 77 70

Total Amount Due

\$ 77 70

ENTERED FEB 14 1994

Garry
Consulting/Educator
CCU 640 960 522

Robert D. Grear, CMfgE, CM
Consultant to the Finishing Industry

2-16-94

13979

PO # 420905

INVOICE FOR CONSULTATION SERVICES

For services rendered in your Quincy, Illinois operations for improving finishing performance, reducing costs, and concepting a new plant/paint facility.

Round trip air fare from Columbus, Ohio to St. Louis, Missouri	\$ 94.00
Auto rental, fuel, and insurance	\$ 112.00
Hotel for 2 nights	\$ 113.22
Food for dinner - 2-10-94 & 2-11-94	\$ 15.81
Personal car mileage for round trip from Springfield, Ohio to Columbus, Ohio airport. 110 miles @ \$.28 mile	\$ 30.80
Airport parking fee	\$ 16.50
2-10-94 One day's consultation fee	\$ 500.00
2-11-94 One day's consultation fee	\$ 500.00

Total consulting fees and expenses

\$1.382.33

TO: Knapheide Mfg. Co.
P.O. Box C-140
436 South Sixth
Quincy, Illinois 62306-2140

DUE AND PAYABLE UPON RECEIPT.

THANK YOU FOR THE OPPORTUNITY TO SERVE!

640 960 502

Gerry (640)
Robert D. Grear

Robert D. Grear

Tax I.D. #288-26-8132

Guest Account

Holiday Inn

10795

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
9025	.00	02/10/94	02/11/94	365	3-DKNAP	8 HOUS	21	ENC	1

DBILL
XXX
XXX
XXX

RESTAURANT

XX XX

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0210	211			ENC FRANCO'S BKFST	8.97	.00	8.97
						\$	8.97
TOTAL							

640 970100

ENTERED FEB 17 1994

[Handwritten Signature]
640

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

GUEST SIGNATURE

Robert D. Grear, CMfgE, CM
Consultant to the Finishing Industry

3-16-94

13979

INVOICE FOR CONSULTATION SERVICES

For services rendered in your Quincy, Illinois operations for improving finishing performance and reducing V.O.C's.

Round trip air fare from Columbus, Ohio to St. Louis, Missouri.	\$ 76.21
Auto rental, insurance, and fuel	\$ 103.58
Food for dinner 3-13-94 and 3-14-94	\$ 20.25
Airport parking fee	\$ 16.50
Personal car mileage for round trip from Springfield, Ohio to Columbus, Ohio airport. 110 miles @ \$.28 mile	\$ 30.80
3-14-94 One day's consultation fee	\$ 500.00
3015-94 One day's consultation fee	\$ 500.00

Total consulting fees and expenses \$ 1,247.34

TO: Knapheide Mfg. Co. **ENTERED MAR 30 1994**
P.O. Box C-140
436 South Sixth
Quincy, Illinois 62306-2140

DUE AND PAYABLE UPON RECEIPT.

THANK YOU FOR THE OPPORTUNITY TO SERVE!

640 960502
per LK

Robert D. Grear
Robert D. Grear

Tax I.D. #288-26-8132

Guest Account

Holiday Inn

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
305	51.00	03/13/94	03/15/94	2824	3-DKNAP	3 KNAP	11	JED	1

R
1031 REGAR LN
SPRINGFIELD OH 455031911

10795

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0313	113		JED	VOLUME ROOM	51.00	.00	51.00
0313	811		JED	SALES TAX	3.57	.00	54.57
0313	812		JED	OCCUPANCY TAX	2.04	.00	56.61
0314	113		JED	VOLUME ROOM	51.00	.00	107.61
0314	811		JED	SALES TAX	3.57	.00	111.18
0314	812		JED	OCCUPANCY TAX	2.04	.00	113.22

TOTAL

\$ 113.22

+ 10.76 ATTACHED

124. -

640960502
per [Signature]

ENTERED MAR 29 1994

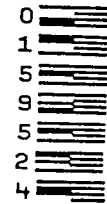
I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

Robert D. Grear
GUEST SIGNATURE

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

Handwritten: Holiday Inn

10795
Franco's



Handwritten: BL (3)

R94-022030 RATS. 4.235.569. D-207-807

15952

	SERV.	PERS.	LOC.	TBLE.	TIME	DATE	CHK. NO.
ITEMS	12	2	1	15	07:18	03/14/94	159524
1	FIT/TRIM						3.95
2	DIETERS						3.95
3	TEA						.75
4	TAX						.61
5	03/14 0113 BRKFAST						9.26
6	CHECK 159524 SETTLED						
7	ADD CHK						9.26
8	CHKG 111						1.50
9	TAX						.50
10	CHECK 1						
11	DIRECT BILL						10.76
12	FOLIO # 248027 POSTED						
13	RM 7507						
14	STAYED 01						
15	11 (Shu) 07:18 03/14/94 12 159524						
16	11 (Shu) 07:18 03/14/94 12 159524						
17							

ENTERED MAR 29 1994

Handwritten: Jerry Korb
KNAPHEIDE AFG.

Franco's

HOLIDAY INN - QUINCY

201 S. THIRD STREET

QUINCY, ILLINOIS 62301

(217) 222-2666

REFERENCE NUMBER	
15952	
DATE	SERVER
AMOUNT	
10.76	

Handwritten: 640960 502
per GKorb

Handwritten: Jerry Korb

Robert D. Grear, CMfgE, CM

Consultant to the Finishing Industry

5-2-94

IN

13979

INVOICE FOR CONSULTATION SERVICES

For services rendered in your Quincy, Illinois operations for improving finishing performance and reducing V.O.C's.

PO# 422642

Two round trip air fares from Columbus, Ohio to St. Louis, Missouri for Messrs. Grear and Litterst.

\$ 168.00

Auto rental, insurance, and fuel.

\$ 116.37

Airport parking fee

ENTERED MAY 18 1994

\$ 16.50

Personal car mileage for round trip from Springfield, Ohio to Columbus, Ohio airport. 110 miles @ \$.28 mile.

\$ 30.80

4-25-94 One day's consultation fee

\$ 500.00

4-26-94 One day's consultation fee

\$ 500.00

Total consulting fees and expenses

\$1,331.67

TO: Knapheide Mfg. Co.
P.O. Box C-140
436 South Sixth
Quincy, Illinois 62306-2140

GKarb
640-Consulting

DUE AND PAYABLE UPON RECEIPT.

THANK YOU FOR THE OPPORTUNITY TO SERVE!

640960502
TX

Please do PO
back to
I need
pay Singley

Robert D. Grear

Robert D. Grear

Tax. I.D. #288-26-8132

Guest Account

Holiday Inn

10795

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
301	51.00	04/24/94	04/26/94	6113	3-DKNAP	3 KNAP	11	JNM	1

WHITIE LITTERS
KNAPHEIDE

QUINCY

IL 62301

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0424	113		JNM	VOLUME ROOM	51.00	.00	51.00
0424	811		JNM	SALES TAX	3.57	.00	54.57
0424	812		JNM	OCCUPANCY TAX	2.04	.00	56.61
0425	113		JNM	VOLUME ROOM	51.00	.00	107.61
0425	811		JNM	SALES TAX	3.57	.00	111.18
0425	812		JNM	OCCUPANCY TAX	2.04	.00	113.22

TOTAL

\$ 113.22

+ 148.38
+ 13.98
276. (ATTACHED)

OK per GK

640960 502

ENTERED MAY 3 1994

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

[Signature]

GUEST SIGNATURE

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

Guest Account

Holiday Inn

16795

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
300	51.00	04/24/94	04/26/94	6112	3-DKNAP	3 KNAF	11	JNM	1

R GREAR
1031 REGAN LN

SPRINGFIELD

OH 455031911

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0424	113		JNM	VOLUME ROOM	51.00	.00	51.00
0424	811		JNM	SALES TAX	3.57	.00	54.57
0424	812		JNM	OCCUPANCY TAX	2.04	.00	56.61
0425	213	21839	ERK	FRANCO'S DINNE	35.16	.00	91.77
0425	113		JNM	VOLUME ROOM	51.00	.00	142.77
0425	811		JNM	SALES TAX	3.57	.00	146.34
0425	812		JNM	OCCUPANCY TAX	2.04	.00	148.38

TOTAL

\$ 148.38

640960502

OK per GK

ENTERED MAY 3 1994

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

Robert D. Grear
GUEST SIGNATURE

Guest Account

Holiday Inn

10795

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
7020	.00	04/26/94	04/27/94	6174	3-DKNAP	8 HOUS	11	JED	1

MFG KNPHEIDE
GERRY KALB
XX
XX XX 0000

DU
21954

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0426	211	219543	JED	FRANCO'S BKEST	13.98	.00	13.98
TOTAL							13.98

640960502 OK per *OK*

ENTERED MAY 3 1994

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

GUEST SIGNATURE

201 S. THIRD STREET
QUINCY, ILLINOIS 62301
(217) 222-2666

AMOUNT
13.98

3
1.25
50
95
75
75
00
78
3
1.98
2.00
1.00
8
1
19543
732
6
1

APRIL 28 & 29 - E-COAT TNG
© BAF

LOGGING & MEALS:

JIM BARNETT	91.52
HAROLD HUGGINS	67.22
KEITH NORRIS	64.33
TOM WREN	69.93
JOHN BAIRD	61.28
JOHN EVANS	65.68

420.00

JIM BARNETT
TRAVEL

\$ 141.00

010100 4040

12959
5283

Name Sam Dault
Expenses Week Of 4-24-99 thru 4-30-99

Department 070
Today's Date 5-2-94

Travel (T₀
(T₀)

Meals & Entertainment:

Breakfast
Lunch
Dinner

Entertainment
Entertainment
Entertainment
(Explain on Back)
Miscellaneous

Total Meals & Entertainment ...

Travel & Lodging Expense:

Transportation:

Train or Bus
Taxi or Limo
Auto Miles Driven
Miles x Current Rate
Gasoline Expense
Other Auto Expense
Auto Rental Expense

Lodging
Postage, Telephone
Service Gratuity
Miscellaneous
Total Travel & Lodging ..

GRAND TOTAL ALL EXPENSES

109701 w 82.13

4097220 40387
THE KNAPHEIDE MFG. CO.
QUINCY, ILLINOIS

10970320 S-X

[illegible]

	Paid by Employees	Charged by Company
5.83	-	-
8.76	-	-
14.29	9.77	-
-	-	-
5.19	-	-
-	-	-
-	-	-
21.59	-	-
5.19	-	-
14.77	-	-
30.55	-	-
2.00	5.00	-
5.00	-	-
10.23	-	-

6277

WEEKLY TOTAL MEALS & ENTERTAINMENT

82.13

Charged the Company

3 days =
Power Seminar

3 days =	24 Oct
Power Seminal	5.28
107.52	61.28
5.00	2.00
3.00	7.28
115.52	69.47
125.75	22.05

Balance Forward	610.39			
Advance to Employee	-			
Actual Paid by Employee	491.25			
Due Employee (Knappheid)	119.34			
Total Meals & Entertainment		821.3		
Total Travel & Lodging		409.12		
Automobile Rental		-		
Grand Total		121.35		

Approved

Date _____

b) Long

a) 5-2-94

MS
5/2/94

VENDOR IND PAINT POWDER EXPO 94			CHECK DATE 3/04/94	CHECK NO. 051348	
INVOICE DATE	INVOICE NO. / DESCRIPTION		INVOICE AMOUNT	DISCOUNT	NET AMOUNT
3/02/94	3-4-94	REG FEE BARNETT	235.00	.00	235.00
THE KNAPHEIDE MFG. CO.			TOTALS ▶		
436 SOUTH SIXTH STREET, P.O. BOX C140, QUINCY, ILLINOIS 62306 ■ 217-222-7131			235.00	.00	235.00



THE KNAPHEIDE MFG. CO.
436 SOUTH SIXTH STREET
P.O. BOX C140
QUINCY, ILLINOIS 62306
217-222-7131

SINCE 1848

PAY

TWO HUNDRED THIRTY-FIVE DOLLARS ONLY

VEN NO. 13996

TO THE
ORDER
OF

IND PAINT POWDER EXPO 94
191 SOUTH GARY AVENUE
CAROL STREAM IL 601882092

MERCANTILE TRUST & SAVINGS BANK
QUINCY, ILLINOIS

70-53/812

CHECK NO. 051348

051348

DATE	AMOUNT
3/04/94	***235.00

VOID AFTER 90 DAYS

THE KNAPHEIDE MFG. CO.

NOT NEGOTIABLE

⑈051348⑈ ⑆081200531⑆ 2008914⑈

KNAPHEIDE MFG. CO.

CHECK REQUEST

DUE DATE: 3-4-94

DATE 3-2-94

REQUESTED BY: Jim Barnett

VENDOR #: 13994

INVOICE # 3499

VENDOR Industrial Paint & Powder Expo '94
191 South Gary Avenue
Carol Stream, Illinois 60188-2092

P.O.# _____ (WHEN APPLICABLE)

ENTERED MAR - 3 1994

DESCRIPTION: Registration fees for Expo & Conference.

ACCOUNT CODING

AMOUNT

960522-644

235⁰⁰

COMMENTS: Please enclose check in attached envelope and place
in U.S. mail. Thank you!

ADVANCE REGISTRATION FORM

Register Early! Advance Registrations Must Be Received
by Monday, April 11, 1994.

To Register for Exhibits-Only, complete Sections A and B.

To Register for Exhibits, Tutorial, and/or Conference Program, Complete Entire Form.

A PLEASE TYPE OR PRINT CLEARLY.

FIRST NAME Jim Restrictions: No person under the age of 18 will be admitted.

LAST NAME Barnett

TITLE M.E. Manager

COMPANY Knapheide Mfg. Co.

ADDRESS 436 S. Sixth P O Box C140

CITY Quincy You may photocopy this form for additional registrants.

STATE IL ZIP / POSTAL CODE 62306-2140 COUNTRY

TELEPHONE (AREA CODE) 217 - 222 - 7131 FAX (AREA CODE) 217 - 222 - 5939 Outside U.S. and Canada please include country and city codes.

B My Primary Job Function (check one only):

A ☐ Company Management
B ☐ Production
C ☒ Engineering
D ☐ Product Design
E ☐ Research/Development
F ☐ Metallurgy and Chemistry
G ☐ Environmental Control
H ☐ Quality Control/Reliability
I ☐ Sales/Marketing

I Influence and/or specify the purchase of (check all that apply):

K ☒ Paint & Powder Coatings
L ☐ Raw Materials for the Manufacture of Coatings
M ☐ Turnkey Finishing Systems
N ☐ Spray Painting Equipment
P ☐ Paint Manufacturing Equipment
Q ☐ Paint Additives
R ☐ Safety Equipment and Supplies

S ☒ Solvents
T ☐ Pollution Control Chemicals and Equipment
U ☒ Electrocoating Materials and Equipment
V ☒ Powder Coating Materials and Equipment
W ☐ Pretreatment Chemicals and Equipment
X ☐ Test and Measurement Equipment
Y ☐ Tumbling/Vibration/Abrasive Media and Equipment
Z ☐ Baking and Curing Equipment
AA ☐ Paint Line Components (Pumps, Filters, Conveyors, etc.)

My Primary Business/Industry is (check one only):

BB ☐ Aerospace
CC ☐ Appliance
DD ☐ Architectural
EE ☐ Automotive
FF ☐ Consultant
GG ☐ Defense
HH ☐ Distributor of Paint/Powder Coatings, Equipment & Materials

JJ ☐ Furniture
KK ☐ Heavy Duty Transportation
LL ☐ Industrial/Agriculture/Construction Equipment
MM ☐ Manufacturer of Paint/Powder Coatings, Equipment & Materials
NN ☐ Marine
PP ☐ Office Products
QQ ☐ Sports & Leisure
RR ☐ Other Truck Equipment

Number of Employees in my Company (all plants) (check one only):

SS ☐ Less than 20
TT ☐ 20 to 49
UU ☐ 50 to 99
VV ☐ 100 to 249
WW ☒ 250 to 499
XX ☐ 500 to 999
YY ☐ 1000 to 2500
ZZ ☐ Over 2500

CIRCLE APPROPRIATE TRACK FOR EACH DAY YOU WILL ATTEND.
Sessions subject to change.

MONDAY	HOURS	TUESDAY	WEDNESDAY	THURSDAY
1 • TUTORIAL Environmental	8:30 A.M. TO NOON	2 • PAINT / POWDER APPLICATION	4 • PAINT APPLICATION	6 • PAINT APPLICATION
9 A.M. TO 4 P.M. INCLUDES LUNCHEON		3 • COATINGS MANUFACTURING SYMPOSIUM	5 • POWDER APPLICATION	7 • POWDER APPLICATION

ADVANCE REGISTRATION FEE SCHEDULE (SELECT ALL THAT APPLY)

- ☐ MASTER PASS™ (Complete 4-day Educational Package — Includes Everything).....\$435
- ☐ Full-Day Environmental Tutorial & Exhibits (Includes Luncheon)\$235
- THE FOLLOWING PACKAGES DO NOT INCLUDE ENVIRONMENTAL TUTORIAL.
- ☐ Three days of Conference & Exhibits\$300
- ☒ Two days of Conference & Exhibits.....\$235
- ☐ One day of Conference & Exhibits.....\$120
- TOTAL.....\$ 235⁰⁰

METHOD OF PAYMENT

- ☒ CHECK Make check payable to: Industrial Paint & Powder Expo
ENCLOSED Mail check with registration form. FAXes NOT accepted.
- ☐ PURCHASE U.S. Government and Military Personnel Only!
ORDER ENCLOSED Mail Purchase Order with registration form. FAXes NOT accepted.
- ☐ CHARGE TO: ☐ Visa ☐ MasterCard ☐ American Express (By Phone, FAX, or Mail.)
Account No.: (Please include dashes or spaces when providing account number.)

Expiration Date: ____ / ____ Account will be billed upon receipt of registration.

Name on Card: (Please Print) _____

Cardholder's Signature _____

3 EASY WAYS TO REGISTER

MAIL: Industrial Paint & Powder Expo '94
191 South Gary Avenue
Carol Stream, Illinois U.S.A. 60188-2092

Checks or Purchase Orders cannot be phoned or FAXed!

PHONE: 1-800-323-5155
(1-708-260-9700 outside the U.S. & Canada)

FAX: 1-708-260-0396 Open 24 Hours!

FOR REGISTRATION USE ONLY!



Travel

Breakfast
Lunch
Dinner

Entertainment
Entertainment
Entertainment
(Explain on Back)
Miscellaneous

Travel & Lodging Expense:

Transportation:

- Air
- Train or Bus
- Taxi or Limo
- Auto Miles Driven
- Miles x Current Rate
- Gasoline Expense
- Other Auto Expense
- Auto Rental Expense

Lodging
Postage, Telephone
Service Gratuity
Miscellaneous
Total Travel & Lodging

GRAND TOTAL ALL EXPENSES

4097010 5.94
1097020 6.28
THE KNAPHEIDE MFG. CO.
QUINCY, ILLINOIS

10742
50105

Name Natalie Nguyen
Expenses Week Of 4-23-94

Department _____
Todays Date _____

Today's Date:

[illegible][illegible]

ENTERED MAY 3 1994 WEEKLY TOTAL MEALS & ENTERTAINMENT

[illegible]

Balance Forward		
Advance to Employee		
Actual Paid by Employee		
Due Employee (Knappheide)	67	22

	Paid by Employee	Charged to Company	For Accounting Use Only
Total Meals & Entertainment	5.94		
Total Travel & Lodging	61.28		
Automobile Rental			
Grand Total	67.22		

Approved

a) Leser

16

221

Date _____

a) $\frac{5}{2}$

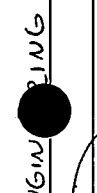
b) $52\frac{2}{5}$

Date	Ref. No.
------	----------

Reason for Trip and Other Remarks:-

3 cost demerit

- Receipts required when possible, A MUST over \$25.00 per single expenditure. The original or carbon copy receipts from Charge Cards must be attached. (No photo copies)
- A business explanation is needed for all travel expenses.



1

a) 5-6-94

Figure 1

1075

a) 5-6-94

[illegible]

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all
travel expenses.

[illegible]

E-Coat Paint Systems Training

1. Order Solicitation-Existing Customer
2. Order Solicitation-Prospective Customer
3. Servicing Customers "
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

A business explanation is needed for all travel expenses.

Ref. No.	Date	Persons Entertained	Company	Business Purpose	Type of Expense	Where Incurred	Amount
----------	------	---------------------	---------	------------------	-----------------	----------------	--------

[illegible]

TRIP TO CHICAGO FOR QUALITY WORKSHOP AND ATTENDANCE AT QUALITY EXPD INTERNATIONAL

[illegible]

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

- A business explanation is needed for all travel expenses.**

Name JOHN EVANS
Expenses Week Of 4-21-94

Department ENGR 881
Today's Date 5-3-94

Travel	(Date
	(From
	(To
	(To

Meals & Entertainment:

Breakfast	
Lunch	
Dinner	
Entertainment	
Entertainment	
Entertainment	
(Explain on Back)	
Miscellaneous	

Total Meals & Entertainment .

Travel & Lodging Expense:

Transportation:	
Air	
Train or Bus	
Taxi or Limo	
Auto Miles Driven	
Miles x Current Rate ...	
Gasoline Expense	
Other Auto Expense	
Auto Rental Expense ...	

Lodging	
Postage, Telephone	
Service Gratuity	
Miscellaneous	
Total Travel & Lodging ...	

GRAND TOTAL ALL EXPENSES

697020 6128
697030 4.40
THE KNAPHEIDE MFG. CO.
QUINCY, ILLINOIS

8 charged May 3E. 5.24 ggs for

[illegible][illegible]

Balance Forward	0.0
Advance to Employee	0.0
Actual Paid by Employee	65.68
Due Employee (Knappeide)	65.68

	Paid by Employee	Charged to Company	For Accounting Use Only
Total Meals & Entertainment			
Total Travel & Lodging	65 48		
Automobile Rental			
Grand Total	65 48		

Approved

a) Leaves

b) PM

Date _____

a) 5/3/94

[illegible]

Reason for Trip and Other Remarks:
TRIP TO DETROIT FOR BASE SEMINAR ON ELECTROCOAT
PA1117 445754

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all
travel expenses.

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 04-25-94

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
CONTINUED FROM PREVIOUS PAGE				
04-06-94	TRANS WORLD AIRLINES TRAVLR: WHICKER/D TICKET NUM: 0151519925016 DEPARTURE DATE: 04/17/94 QUINCY:T:ST. LOUIS ST. LOUIS:T:DETROIT DETROIT:V:ST. LOUIS ST. LOUIS:V:QUINCY	B4B03013	\$223.00	
04-07-94	MARKAIR AIRLINE TRAVLR: LACKEY/J TICKET NUM: 4787749534579 DEPARTURE DATE: 04/15/94 KANSAS CITY:Y:SAN DIEGO SAN DIEGO:M:DENVER DENVER:B:KANSAS CITY	B4E02031	414.00	
04-11-94	TRANS WORLD AIRLINES TRAVLR: BOCKENFELD/J TICKET NUM: 0151520603024 DEPARTURE DATE: 04/25/94 QUINCY:T:ST. LOUIS ST. LOUIS:T:ALBUQUERQUE	B4E01154	156.00	
04-12-94	TRANS WORLD AIRLINES TRAVLR: BOCKENFELD/J TICKET NUM: 0151520603038 DEPARTURE DATE: 04/22/94 DENVER:V:ST. LOUIS ST. LOUIS:V:QUINCY	B4E01157	184.00	
04-14-94	AMERICAN AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0011520603085 DEPARTURE DATE: 04/28/94 CHICAGO:K:DETROIT DETROIT:T:ST. LOUIS ST. LOUIS:T:QUINCY	I4D08825	141.00	

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

See reverse side for important information.

M004692

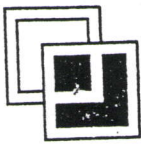
Page 3 of 4

CITIBANK

7131

NO
TER ALLOW
UNCHECKED
IT IS UNLAWFUL TO PURCHASE OR RESELL THIS TICKET FROM ANY ENTITY OTHER THAN THE ISSUING CARRIER OR ITS AUTHORIZED AGENTS
OTHER THAN THE ISSUING CARRIER OR ITS AUTHORIZED AGENTS

UFACTURING CO



Paint Specialist

Kenneth E. (Whitey) Litterst

5920 Morris Road
Springfield, Ohio 45502

(513) 399-0444

282 12 3118

May 20, 1994

Mrs. Gerry Korb

Vice President Operations

The Knapheide Mfg. Co.
436 S. Sixth St.

Quincy, Ill. 62306-2146

CCU 640
CONSULTING

Gerry
5/20/94

Consulting Fee
(5 Days at \$25.00 per Day)

\$ 625.00

Mileage
(932 miles at .29 per mile)

\$ 270.28

Thank You

Total

\$ 895.28

Kenneth E. (Whitey) Litterst

5920 Morris Road

Springfield, Ohio 45502-9244

Guest Account

Holiday Inn

10795

Room	Rate	Arrival	Depart	Folio No.	Account	Affiliation	PF	ID	Page
230	52.00	05/15/94	05/20/94	8096	2-DUNAS	2-KNAD			

WHITE
XY
AA
AA

LITVEST

Tw

ENTERED MAY 25 1994

Date	Code	Reference	ID	Description	Charges	Payments	Balance
0515	112			JNM VOLUME ROOM	53.00	.00	53.00
0515	811			JNM SALES TAX	3.71	.00	56.71
0515	812			JNM OCCUPANCY TAX	2.12	.00	58.83
0516	112			JNM VOLUME ROOM	53.00	.00	111.83
0516	811			JNM SALES TAX	3.71	.00	115.54
0516	812			JNM OCCUPANCY TAX	2.12	.00	117.66
0517	112			JNM VOLUME ROOM	53.00	.00	170.66
0517	811			JNM SALES TAX	3.71	.00	174.37
0517	812			JNM OCCUPANCY TAX	2.12	.00	176.49
0518	112			MTD VOLUME ROOM	53.00	.00	229.49
0518	811			MTD SALES TAX	3.71	.00	233.20
0518	812			MTD OCCUPANCY TAX	2.12	.00	235.32
0519	112			JED VOLUME ROOM	53.00	.00	288.32
0519	811			JED SALES TAX	3.71	.00	292.03
0519	812			JED OCCUPANCY TAX	2.12	.00	294.15

TOTAL

\$ 294.15

294.15

Please OK + return
Leah

640 Consulting
Gerry
640966502

I AGREE THAT MY LIABILITY FOR THIS BILL IS NOT WAIVED AND AGREE TO BE HELD PERSONALLY LIABLE IN THE EVENT THAT THE INDICATED PERSON, COMPANY OR ASSOCIATION FAILS TO PAY THE FULL AMOUNT OF THESE CHARGES.

HOLIDAY INN - QUINCY
201 S. Third Street
Quincy, Illinois 62301
217/222-2666 FAX 217/222-3238

GUEST SIGNATURE

[illegible]

Reason for Trip and Other Remarks:

Reason for Trip and Other Remarks:
E-boat training for Dick Whicker & Jim Burnett. Both expenses are recorded on this report. There will be no report for Dick.

Business Purpose Codes:

1. Order Solicitation—Existing Customer
2. Order Solicitation—Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all travel expenses.

Remember
• Enclose your check or money order, payable in U.S. dollars, with this payment coupon, but do not staple or tape them together.
Do not send cash.

s 62306-2140

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 08-25-94

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			
07-19-94	TRANS WORLD AIRLINES TRAVLR: GENENBACHER/D TICKET NUM: 0151471570748 DEPARTURE DATE: 07/29/94 ATLANTA:Y:ST. LOUIS ST. LOUIS:Y:QUINCY	B7J02153	\$231.00	
07-19-94	TRANS WORLD AIRLINES TRAVLR: WHICKER/D TICKET NUM: 0151471570755 DEPARTURE DATE: 07/27/94 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:PITTSBURGH PITTSBURGH:Y:ST. LOUIS ST. LOUIS:Y:QUINCY	B7J02154	532.50	
07-19-94	TRANS WORLD AIRLINES TRAVLR: GENENBACHER/D TICKET NUM: 0151471570763 DEPARTURE DATE: 07/22/94 KNOXVILLE:Y:ST. LOUIS ST. LOUIS:Y:QUINCY	B7J02155	227.25	
07-20-94	TRANS WORLD AIRLINES TRAVLR: MAHONEY/P TICKET NUM: 0151472989215 DEPARTURE DATE: 07/26/94 QUINCY:K:ST. LOUIS ST. LOUIS:K:DETROIT DETROIT:K:ST. LOUIS ST. LOUIS:K:QUINCY	B7J02156	305.00	
07-22-94	TRANS WORLD AIRLINES TRAVLR: WREN/J TICKET NUM: 0151469873634	B7J02102		\$532.50

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ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 07-25-94

2989215
USD305.00

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			
06-22-94	NORTHWEST AIRLINES TRAVLR: KIPLEY/D TICKET NUM: 0121469873447 DEPARTURE DATE: 06/27/94 ST. LOUIS:K:DETROIT DETROIT: :TRAVERSE CI TRAVERSE CI:M:MILWAUKEE MILWAUKEE:M:ST. LOUIS	16L28911	\$220.00	
06-22-94	TRANS WORLD AIRLINES TRAVLR: MAHONEY TICKET NUM: 0151002177250	06178178		\$197.00
07-06-94	TRANS WORLD AIRLINES TRAVLR: KNAPHEIDE/H TICKET NUM: 0151469873599 DEPARTURE DATE: 07/20/94 ST. LOUIS:T:SAN FRANCIS SAN FRANCIS:T:ST. LOUIS	B7C12223	383.00	
07-06-94	TRANS WORLD AIRLINES TRAVLR: KNAPHEIDE/A TICKET NUM: 0151469873600 DEPARTURE DATE: 07/20/94 ST. LOUIS:T:SAN FRANCIS SAN FRANCIS:T:ST. LOUIS	B7C12224	383.00	
07-08-94	TRANS WORLD AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0151469873633 DEPARTURE DATE: 07/27/94 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:PITTSBURGH PITTSBURGH :Y:ST. LOUIS ST. LOUIS:Y:QUINCY	B7C12230	532.50	

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

[illegible]

Reasons for Trip and Other Remarks:
 6 - meet with the Clin on new facility planning

1. Order Solicitation-Existing Customer
2. Order Solicitation-Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

A business explanation is needed for all travel expenses.

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 12-23-94



Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			
11-21-94	TRANS WORLD AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0151489034293 DEPARTURE DATE: 11/22/94 ST. LOUIS:Y:QUINCY	BBM01489	\$208.19	
11-21-94	SOUTHWEST AIRLINES TRAVLR: BARNETT/J TICKET NUM: 5268477878732 DEPARTURE DATE: 11/22/94 CHICAGO:Y:ST. LOUIS	BBM02751	72.00	
11-21-94	SOUTHWEST AIRLINES TRAVLR: AUGGINS/H TICKET NUM: 5268477878731 DEPARTURE DATE: 11/22/94 CHICAGO:Y:ST. LOUIS	BBM02753	72.00	
11-22-94	TRANS WORLD AIRLINES TRAVLR: PRENGER/J TICKET NUM: 0151489034299 DEPARTURE DATE: 12/12/94 ST. LOUIS:S:OKLAHOMA CI	BBM01490	45.00	
11-22-94	NORTHWEST AIRLINES TRAVLR: RICH/J TICKET NUM: 0121489034300 DEPARTURE DATE: 12/04/94 ST. LOUIS:B:MINNEAPOLIS MINNEAPOLIS:V:RAPID CITY	IBL21323	409.00	
11-22-94	USAIR INC P210 TRAVLR: GENENBACHER/D TICKET NUM: 0371489034315 DEPARTURE DATE: 12/03/94 MOBILE AL/P:Y:CHARLOTTE CHARLOTTE:Y:ST. LOUIS	IBL44334	341.00	

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

See reverse side for important information.

M003657

Page 2 of 6

CITIBANK

[illegible]

Reason for Trip and Other Remarks:

(6) Lost found Test. (Thursday & Wednesday)

(6) Visit Mc Clein on new facility. (Thursday)

1. Order Solicitation-Existing Customer
2. Order Solicitation-Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

A business explanation is needed for all travel expenses.

DINERS CLUB ACCOUNT ACTIVITY

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 02-23-95

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			\$505.00
01-18-95	UNITED AIRLINES TRAVLR: BAKER/B TICKET NUM: 0161493516082	B1L10425		534.00
01-18-95	UNITED AIRLINES TRAVLR: EAREL/B TICKET NUM: 0161482407588	B1L10426		45.00
01-18-95	MARKAIR AIRLINE TRAVLR: BAKER/B TICKET NUM: 4781493516083	B1L18048		
01-20-95	CONTINENTAL AIR/CR MGMT TRAVLR: PRENGER/J TICKET NUM: 0051494883120 DEPARTURE DATE: 01/27/95 EL PASO:K:HOUSTON HOUSTON:K:ST. LOUIS	B1L03389	\$284.00	
01-20-95	TRANS WORLD AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0151494883112 DEPARTURE DATE: 01/24/95 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:MILWAUKEE	B1L09416	243.75	
01-20-95	SOUTHWEST AIRLINES TRAVLR: PRENGER/J TICKET NUM: 5268481684075 DEPARTURE DATE: 01/24/95 TULSA:Y:DALLAS/FT. DALLAS/FT. :Y:ALBUQUERQUE	B1L18342	162.00	
01-25-95	TRANS WORLD AIRLINES TRAVLR: GENENBACHER/D TICKET NUM: 0151496381644 DEPARTURE DATE: 01/31/95 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:MEMPHIS	B1N02897	228.75	

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

See reverse side for important information.

M003639

Page 3 of 8

CITIBANK

Know of your remittance envelope.

IT IS IMPORTANT TO HAVE
TICKET PROMPTLY ADDED TO
BEING CARRIED

TEST
POM

ABOVE

TURBIC CO

[illegible]

(6) Trimming test for new facility. \$9.00^{*} max. on 2-22-95 was a baggage check charge from the last trip to Chicago that was left off in error.

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all
travel expenses.



Travel

Breakfast
Lunch
Dinner

Entertainment
Entertainment
Entertainment
(Explain on Back)
Miscellaneous

Total Meals & Entertainment ..

Travel & Lodging Expense:

Transportation:

Air	
Train or Bus	
Taxi or Limo	
Auto Miles Driven	
Miles x Current Rate	22
Gasoline Expense	
Other Auto Expense	14
Auto Rental Expense	

Lodging
Postage, Telephone
Service Gratuity
Miscellaneous
Total Travel & Lodging

GRAND TOTAL ALL EXPENSES

094721W 7.52
094722W 130.22
THE KNAPHEIDE MFG. CO.
QUINCY, ILLINOIS
094723S 55.10
094725S 22.50
(*) SEE REVERSE

12333
5102

Name GARY MOORE
Expenses Week Of 2010-2011

Department _____
Todays Date _____

609 / M.E.
24 FEB 95

[illegible][illegible]

Balance Forward		0
Advance to Employee		0
Actual Paid by Employee	215	24
Due Employee (Knapsheide)	215	24

	Paid by Employee	Charged to Company	For Accounting Use Only
Total Meals & Entertainment	441		
Total Travel & Lodging	21083		
Automobile Rental			
Grand Total	21524		

Approved

a)

Date _____

a)

(b)

[illegible]

TRAVEL TO HODSDON CORP. FOR PRODUCT TESTING - CONTING MATERIALS

OTHER AUTO EXPENSE - PAYMENT FOR AUTO PARKING AT AIRPARK ST. LOUIS.

1. Order Solicitation-Existing Customer
2. Order Solicitation-Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all
travel expenses.

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 03-27-95

DLB
09-1
IT IS UNLAWFUL TO PURCHASE OR RESELL THIS TICKET FROM ANY ENTITY OTHER THAN THE ISSUING CARRIER OR ITS AUTHORIZED AGENT.
SOUTHWEST
MILES COUPON
CA
3 3 □
WHITE AREA ABOVE

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
CONTINUED FROM PREVIOUS PAGE				
02-17-95	DELTA AIR LINES TRAVLR: PRENGER/J TICKET NUM: 0061499330244 DEPARTURE DATE: 03/03/95 SACRAMENTO :M:SALT LAKE C SALT LAKE C:M:ST. LOUIS	B2K10770	\$205.00	
02-17-95	TRANS WORLD AIRLINES TRAVLR: MAHONEY/P TICKET NUM: 0151499330235 DEPARTURE DATE: 02/20/95 ST. LOUIS:T:DETROIT DETROIT:T:ST. LOUIS	B2K18665	174.00	
02-17-95	SOUTHWEST AIRLINES TRAVLR: BARNETT/J TICKET NUM: 5268481684127 DEPARTURE DATE: 02/21/95 ST. LOUIS:H:CLEVELAND CLEVELAND:H:ST. LOUIS	B2K37146	179.00	
02-17-95	SOUTHWEST AIRLINES TRAVLR: MOHR/G TICKET NUM: 5268481684128 DEPARTURE DATE: 02/21/95 ST. LOUIS:H:CLEVELAND CLEVELAND:H:ST. LOUIS	B2K37147	6.00	(2) for (1)
02-20-95	DELTA AIR LINES TRAVLR: KNAPHEIDE/H TICKET NUM: 0061499330248 DEPARTURE DATE: 02/24/95 ORLANDO:K:JACKSONVILL	B2O08813	114.00	
02-20-95	TRANS WORLD AIRLINES TRAVLR: BOCKENFELD/J TICKET NUM: 0151499330246 DEPARTURE DATE: 02/22/95 ST. LOUIS:Y:TAMPA/ST. P	B2O15853	403.50	

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

See reverse side for important information.

M003447

Page 3 of 9

CITIBANK

3/16/95 TRIP TO TTX
STERGEON BAY, WI

LODGING, ETC

JIM BARNETT	41.36
HAROLD HUGGINS	36.08
GERRY KORB	36.08
	<hr/>
	\$ 113.52

TRAVEL

3 @ 598 = \$ 1,794

[illegible]

6.) Visit T.T.X. for new plant system. Lunch on 3-13-95 for M.E. of the month

Lunch on 3-15-95 with Brad H. from Pinnacle on C.G.I.

1. Order Solicitation—Existing Customer
2. Order Solicitation—Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all
travel expenses.

DETAIL OF ENTERTAINMENT EXPENSE

[illegible]

Reason for Trip and Other Remarks:

Reason for Trip and Other Remarks:
Trip to Tennessee

Business Purpose Codes:

1. Order Solicitation-Existing Customer
2. Order Solicitation-Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all travel expenses.

DETAIL OF ENTERTAINMENT EXPENSE

[illegible]

Reason for Trip and Other Remarks:

Look @ E-Coast Mfg & Just a Nations

Business Purpose Codes:

1. Order Solicitation—Existing Customer
2. Order Solicitation—Prospective Customer
3. Servicing Customers
4. Trade & Professional Association Meeting
5. Product Promotion
6. Other (Please explain above or attach explanation)

Receipts required when possible,
A MUST over \$25.00 per single expenditure.
The original or carbon copy receipts from
Charge Cards must be attached. (No photo copies)

A business explanation is needed for all travel expenses.

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPHEIDE MFG CO
Billing Date: 03-27-95

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			
03-07-95	SOUTHWEST AIRLINES TRAVLR: EASTERLING/J TICKET NUM: 5268481684184 DEPARTURE DATE: 04/02/95 HOUSTON:Q:ST. LOUIS ST. LOUIS:Q:HOUSTON	B3G42812	\$157.00	
03-09-95	TRANS WORLD AIRLINES TRAVLR: KORB/G TICKET NUM: 0151402213818 DEPARTURE DATE: 03/16/95 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:MILWAUKEE	B3G22429	255.00	
03-09-95	TRANS WORLD AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0151402213820 DEPARTURE DATE: 03/16/95 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:MILWAUKEE	B3G22430	255.00	
03-09-95	AMERICAN AIRLINES TRAVLR: KORB/G TICKET NUM: 0011402213819 DEPARTURE DATE: 03/17/95 GREEN BAY:Y:CHICAGO CHICAGO:H:QUINCY	I3E01119	343.00	
03-09-95	AMERICAN AIRLINES TRAVLR: BARNETT/J TICKET NUM: 0011402213821 DEPARTURE DATE: 03/17/95 GREEN BAY:Y:CHICAGO CHICAGO:H:QUINCY	I3E01120	343.00	
03-10-95	TRANS WORLD AIRLINES TRAVLR: MAHONEY/P TICKET NUM: 0151499330270	B3G21173		\$243.75

ACCOUNT ACTIVITY CONTINUED ON NEXT PAGE

See reverse side for important information.

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Page 8 of 9

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IT IS UNLAWFUL TO PURCHASE OR RESELL THIS TICKET FROM ANOTHER ENTITY OTHER THAN THE ISSUING CARRIER OR ITS AUTHORIZED AGENT.

SOUTHWEST

NGERS COUPON

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WHITE AREA ABOVE

**DINERS CLUB
ACCOUNT
ACTIVITY**

ACCOUNT: 3883 317500 0009
Name: KNAPEIDE MFG CO
Billing Date: 03-27-95

Date	Description	Reference Number	Charges and Other Debits	Payments and Credits
	CONTINUED FROM PREVIOUS PAGE			\$243.75
03-10-95	TRANS WORLD AIRLINES TRAVLR: TERFORD/R TICKET NUM: 0151497804359	B3G21174		
03-10-95	TRANS WORLD AIRLINES TRAVLR: HUGGINS/H TICKET NUM: 0151402213840 DEPARTURE DATE: 03/16/95 QUINCY:Y:ST. LOUIS ST. LOUIS:Y:MILWAUKEE	B3G22431	\$255.00	
03-10-95	CONTINENTAL AIR/CR MGMT TRAVLR: LACKEY/J TICKET NUM: 0057764811848 DEPARTURE DATE: 03/22/95 KANSAS CITY:Y:HOUSTON HOUSTON:Y:JACKSONVILL JACKSONVILL:Y:ATLANTA ATLANTA:M:KANSAS CITY	B3I00820	474.79	
03-10-95	AMERICAN AIRLINES TRAVLR: HUGGINS/H TICKET NUM: 0011402213841 DEPARTURE DATE: 03/17/95 GREEN BAY:Y:CHICAGO CHICAGO:H:QUINCY	I3F01542	343.00	
			\$11,228.61	\$1,361.02

TOTAL FOR: 3883 317500 0108

Previous Balance	- Payments	- Credits	= Past Due Balance	
\$4,224.98	\$4,224.98	\$1,361.02	\$0.00	
+ Late Fees	+ New Charges	+ Other Debits	+/- Travel Advances	= Diners Club Balance Due
\$0.00	\$11,228.61	\$0.00	\$0.00	\$9,867.59

See reverse side for important information.

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Page 9 of 9

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SOUTHWEST
NGERS COUPON
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IT IS UNLAWFUL TO PURCHASE OR RES
TICKET FROM/TO ANY OTHER T
ISSUING CARRIER OR ITS AUTHORIZED



Department 17F6 ENG
 Today's Date 5 APR 95

5 APR 95

Saturday

Miscellaneous

GRAND TOTAL ALL EXPENSES

**THE KNAPHEIDE MFG. CO.
QUINCY, ILLINOIS**

[illegible]

WEEKLY TOTAL MEALS & ENTERTAINMENT

Paid by Employee	Charged the Company

GRAND TOTAL ALL EXPENSES

Handwritten notes on graph paper:

- A green oval encircling the text "46 44".
- Below the oval, the text "44 44" is written, with the first "44" crossed out by a horizontal line.
- At the bottom left, the text "48 48" is written, with the first "48" crossed out by a horizontal line.

	Paid by Employee	Charged to Company	For Accounting Use Only
Total Meals & Entertainment	—		
Total Travel & Lodging	48	76	
Automobile Rental	48	76	
Grand Total			

Date _____

a) 110
b) 9-12-95

DETAIL OF ENTERTAINMENT EXPENSE

[illegible]

PAINT TECHNOLOGY INVESTIGATION / EVALUATION

9/19/95 Update

DATE	EVENT	COSTS	
<u>1994</u>			
JAN 27 & 28	PAINT SEMINAR		
	BOB GREAR, SME - INSTRUCTOR	\$ 5,210	
	REFRESHMENTS & LUNCHES	357	
		78	
	(18) ATTENDEES @ \$40K EA * 2 DAYS	<u>5,760</u>	11,405
FEB 11 & 12	PAINT CONSULTING		
	BOB GREAR - FEES & TRAVEL	1,382	
	LUNCH	<u>9</u>	1,391
MAR 14 & 15	PAINT CONSULTING		
	BOB GREAR - FEES & TRAVEL	1,247	
	LUNCH, MOTEL	<u>124</u>	1,371
APR 25 & 26	PAINT CONSULTING - BOB GREAR & KENNETH LITTEREST -FEES & TRAVEL	1,332	
	LUNCH, MOTEL	<u>276</u>	1,608
APR 25 & 26	POWDER PAINT SEMINAR - (JIM BARNETT)		
	TRAVEL & LODGING	400	
	SEMINAR COST	<u>235</u>	
APR 28 & 29	E-COAT TNG @ BASF		635
	(JIM BARNETT, HAROLD HUGGINS, KEITH NORRIS, JON WREN, JOHN BAIRD, JOHN EVANS)		
	LODGING & MEALS	420	
	JIM BARNETT TRAVEL	141	
	TRAVEL (3.8 HRS @ 738/HR)	<u>2,804</u>	3,365
MAY 15 - 20	PAINT CONSULTING - KENNETH LITTEREST		
	FEES & TRAVEL	895	
	MOTEL	<u>294</u>	1,189
JUN 27	TO CHRYSLER TEST LAB IN DETROIT, ANDERSON MFG, DUKES INDUSTRIES & DEFIANCE METAL PRODUCTS (JIM BARNETT, HAROLD HUGGINS, JOHN EVANS, DICK WHICKER, GERRY KORB)		
	TRAVEL (4.4 HRS @ 738/HR)		3,247

DATE	EVENT	COSTS	
JUN 28	TO WINNEBAGO INDUSTRIES & LENNOX (JIM BARNETT, HAROLD HUGGINS, KNAP, DICK WHICKER, GERRY KORB) TRAVEL (2.9 HRS @ 738/HR)		2,140
JUL 27 - 29	SEMINAR - PPG COATINGS, PITTSBURGH (DICK WHICKER & JIM BARNETT) TRAVEL MEALS & LODGING	1,065 <u>538</u>	1,603
AUG 16	TO COOPER POWER SYSTEMS & STEELTECH, MILW (JIM BARNETT, HAROLD HUGGINS, DICK WHICKER, BILL GREVING, GERRY KORB) TRAVEL (2.0 HR @ 738/ HR)		1,476
NOV 21	TO MORTON POWDER & WAGNER RECLAIM - (JIM BARNETT) TRAVEL LODGING	280 <u>186</u>	466
<u>1995</u> JAN 25	E-COAT PARTS @ STEELTECH (JIM BARNETT, DICK WHICKER, JOHN BAIRD, GARY MOHR, BILL GREVING) TRAVEL & LODGING FOR JIM BARNETT TRAVEL (2.5 HRS @ 738/ HR)	356 <u>1,845</u>	2,201
JAN 26	REVIEW E-COAT PARTS @ STEELTECH (JIM BARNETT) CHIC TO MILW TRAVEL (1.5 HR @ 738)		1,107
FEB 21 - 23	POWDER TEST @ NORDSON (GARY MOHR & JIM BARNETT) TRAVEL LODGING	185 <u>402</u>	587

<u>DATE</u>	<u>EVENT</u>	<u>COSTS</u>
MAR 16	TO TTX, STERGEON BAY, WI (JIM BARNETT, HAROLD HUGGINS, GERRY KORB)	
	TRAVEL	1,794
	LODGING	<u>114</u> 1,908
MAR 30	TO JOHN DEERE, HORICON, WI & GEO KOCH & SONS, EVANSVILLE, IN (JIM BARNETT, GARY MOHR, GERRY KORB)	
	TRAVEL (5 HR @ 738)	3,690
APR 18	TO ST LOUIS W/ NORDSON TO LOOK AT POWDER EQ (GARY MOHR)	
	TRAVEL & MEALS	47
FUTURE	FURTHER EVALUATION	<u>5,000</u>
	TOTAL COST	\$ 44,437